From: Casburn, Tracey

Location: R7-RO2.3-L08-12/R7-RO; R7-Confline-Lex. 6 - Personal Privacy P10XXXX/Phone/R7-RO

Importance: Normal

Subject: Talk about path forward for SO2 DRR modeling submitted based on 2015 CEMS data

Start Date/Time: Tue 1/10/2017 8:30:00 PM Tue 1/10/2017 9:30:00 PM

To: Wharton, Tracy[tracy.wharton@nebraska.gov]

Cc: Crable, Gregory[Crable.Gregory@epa.gov]; Avey, Lance[Avey.Lance@epa.gov]; Algoe-Eakin,

Amy[Algoe-Eakin.Amy@epa.gov]

From: Peter, David

Sent: Thur 1/12/2017 3:31:51 PM

Subject: FW: Question about SO2 Modeling results due to tomorrow for Whelan

Tracy,

It is OK to send the hard copy package by regular mail, postmarked by tomorrow. Please email the documents that can be easily scanned (i.e., cover letter, modeling summary report, any updated designation recommendations, etc.) to Administrator Hague by the COB tomorrow and copy me, Greg and Lance on the email. The modeling files can just be included in the package that is mailed.

David Peter

Environmental Engineer

U.S. EPA Region 7, Air Permitting Branch

11201 Renner Boulevard

Lenexa, KS 66219

913-551-7397

From: Crable, Gregory

Sent: Thursday, January 12, 2017 9:20 AM

To: Algoe-Eakin, Amy <Algoe-Eakin.Amy@epa.gov>; Avey, Lance <Avey.Lance@epa.gov>;

Peter, David <peter.david@epa.gov>

Subject: FW: Question about SO2 Modeling results due to tomorrow for Whelan

Importance: High

From: Wharton, Tracy [mailto:tracy.wharton@nebraska.gov]

Sent: Thursday, January 12, 2017 9:17 AM

To: Crable, Gregory < Crable.Gregory@epa.gov > Subject: Question about SO2 Modeling results due to tomorrow for Whelan Importance: High
Greg,
Hi, I hope your week is going well! A quick question RE: the SO2 modeling results that are due tomorrow for Whelan Energy Center – are those to be <u>received</u> by EPA NLT tomorrow OR is it acceptable that they are <u>postmarked</u> by tomorrow with an email sent to Administrator Hague? The modeling report can be sent via email, but the modeling data is about 182 Mb and I think we can do a drop-box for that, but will verify.
I still have time to overnight this
Thank you and have a great day!
Tracy
Respectfully,
Tracy Wharton
NAAQS-SIP COORDINATOR
Air Quality Division
Nebraska Department of Environmental Quality
1200 N Street, Suite 400
PO Box 98922
Lincoln, NE 68509-8922

PHONE: (402) 471-6410

http:/deq.ne.gov

From: Casburn, Tracey

Location: R7-RO2.3-L08-12/R7-RO; R7-Confline-Ex. 6 - Personal Privacy P10XXXX/Phone/R7-RO

Importance: Normal

Subject: Talk about path forward for SO2 DRR modeling submitted based on 2015 CEMS data

Start Date/Time: Tue 1/10/2017 8:30:00 PM Tue 1/10/2017 9:30:00 PM

To: Casburn, Tracey[casburn.tracey@epa.gov]

Cc: Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]; Bybee, Darcy[darcy.bybee@dnr.mo.gov];

Wilbur, Emily[emily.wilbur@dnr.mo.gov]; Keas, Ashley[Ashley.Keas@dnr.mo.gov]

From: Bechtel, Cheri

Sent: Thur 12/8/2016 5:28:33 PM

Subject: FW: Missouri SO2 Area Recommendations for December 2017 Designations

2010-SO2-5 DRR Modeling submittal w-o appendices.pdf

Ms. Casburn,

As the attachment to the previous email was too large, I am sending this revised attachment. Please contact Ashley Keas (<u>Ashley.keas@dnr.mo.gov</u> or (573) 526-5601) to arrange FTP transferal of the appendices.

Thanks very much,

Cheri Bechtel

Air Pollution Control Program

573-751-8308

cheri.bechtel@dnr.mo.gov

Promoting, Protecting and Enjoying our Natural Resources. Learn more at <u>dnr.mo.gov</u>.

From: Bechtel, Cheri

Sent: Thursday, December 08, 2016 10:38 AM

To: Casburn, Tracey

Cc: 'algoe-eakin.amy@epa.gov'; Bybee, Darcy; Wilbur, Emily; Keas, Ashley **Subject:** Missouri SO2 Area Recommendations for December 2017 Designations

Ms. Casburn,

The subject submittal	is attached.	Please let me	know if anything	else is needed.

Thank you,

Cheri Bechtel

Air Pollution Control Program

573-751-8308

cheri.bechtel@dnr.mo.gov

Promoting, Protecting and Enjoying our Natural Resources. Learn more at <u>dnr.mo.gov</u>.

To: Grooms, Leland[Grooms.Leland@epa.gov]; Crable, Gregory[Crable.Gregory@epa.gov]; Algoe-

Eakin, Amy[Algoe-Eakin.Amy@epa.gov]; russell.hadan@douglascounty-

ne.gov[russell.hadan@douglascounty-ne.gov]; Jim S. Fobben

(jfobben@lincoln.ne.gov)[jfobben@lincoln.ne.gov]; Chris M. Schroeder

(cschroeder@lincoln.ne.gov)[cschroeder@lincoln.ne.gov]

Cc: Ellis, Todd[todd.ellis@nebraska.gov]; Wiese, Carrie[carrie.wiese@nebraska.gov]; chris.hetzler@nebraska.gov[chris.hetzler@nebraska.gov]; Morton, Kyle[kyle.morton@nebraska.gov]

From: Yeggy, Jim

Sent: Tue 12/6/2016 4:50:32 PM

Subject: Addendum to the Nebraska 2016 Ambient Air Monitoring Network Plan

AddCvr120616.pdf NR Add 120616F.pdf

FYI/FAA

See attached Addendum to the Nebraska 2016 Ambient Air Monitoring Network Plan and the submittal cover letter.

The Addendum proposes a new SO2 site in Omaha to meet Part 51 Subpart BB requirements, as explained in the attached documents.

Questions concerning the Addendum are best addressed to Carrie Wiese at 402/471-6624 or carrie.wiese@nebraska.gov.

Have a great Christmas and New Years!

Jim Yeggy

Program Specialist

NDEQ Air Quality Compliance Section

402/471-2142 office

402/202-0272 cell

To: Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov] Cc: Ellis, Todd[todd.ellis@nebraska.gov]; jim.yeggy@nebraska.gov[jim.yeggy@nebraska.gov]; McManus, Brian[brian.mcmanus@nebraska.gov] From: Wiese, Carrie Sent: Thur 11/17/2016 8:48:31 PM Subject: FW: Addendum to the 2016 network plan to be made available for public inspection NR Add111716pid CW.docx NR Add111716pid CW.pdf
Hi Amy,
Attached, please find our addendum prepared for public notice – just wanted to verify that the 7 day period we discussed on the phone the other day would be acceptable in lieu of 30 days.
Thanks, Carrie
From: Yeggy, Jim Sent: Thursday, November 17, 2016 2:22 PM To: McManus, Brian Cc: Wiese, Carrie; Ellis, Todd Subject: Addendum to the 2016 network plan to be made available for public inspection
Brian,
I attached both docx and pdf versions of the addendum. It is very important that this be put on the NDEQ web site for a 30 day public review period as soon as possible.
Thanks.
Jim Yeggy

To: Avey, Lance[Avey.Lance@epa.gov]; Peter, David[peter.david@epa.gov]

Cc: Stoner, Kevin J[kevin.j.stoner@nebraska.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]

From: Wiese, Carrie

Sent: Wed 10/26/2016 9:05:47 PM

Subject: RE: North Omaha Station - Possible SO2 Monitoring Site Evaluation

Good afternoon, all:

I had a phone call from OPPD this morning, requesting any information on approval of the new SO2 monitoring site (site 1 vs. site 2). Is there any update here? Also, is there any additional information about public notice of our network monitoring plan (whether it would be required to be done again)?

Thanks, Carrie

From: Avey, Lance [mailto:Avey.Lance@epa.gov]

Sent: Friday, October 21, 2016 9:30 AM

To: Wiese, Carrie; Peter, David Cc: Stoner, Kevin J; Algoe-Eakin, Amy

Subject: RE: North Omaha Station - Possible SO2 Monitoring Site Evaluation

Hi Carrie,

Thanks for getting the new proposed sites and this information together so quickly. From the technical side, my preference is Site 2 as the modeling predicts that is where we see the greatest potential impacts from OPPD emissions. For Site 1, that was considered on OPPD property, and thus no modeling "receptors" were placed near Site 1 and thus no evaluation of Site 1 in terms of modeled impacts can be done. I attached the modeling results nearby OPPD with the locations of proposed Sites 1 &2 and current Whitmore. Basically, the red dots represent where the modeling predicts the greatest impacts from OPPD emissions. And as you can see that is around Site 2.

At the same time, I understand the interference concerns that you have for Site 2. We will see if the monitoring group shares your interference concerns and pass along their thoughts on the two proposed sites. Hopefully a quick turnaround response can be provided early next week.

Thanks again,
Lance

Lance Avey

EPA Region 7

11201 Renner Boulevard

Lenexa, Kansas 66219

(913) 551-7809

avey.lance@epa.gov

From: Wiese, Carrie [mailto:carrie.wiese@nebraska.gov]

Sent: Thursday, October 20, 2016 3:17 PM

To: Avey, Lance <Avey.Lance@epa.gov>; Peter, David <peter.david@epa.gov>

Cc: Stoner, Kevin J < kevin.j.stoner@nebraska.gov>

Subject: North Omaha Station - Possible SO2 Monitoring Site Evaluation

Importance: High

Good afternoon, Lance and David:

Earlier this week, we spoke with OPPD and Douglas County Health Department regarding the concerns with moving the Whitmore monitor. What was decided as a group was that, rather than running risks with the ozone data for Whitmore and also the potential for having no SO2 data for the new site as of January 1 if there should be any issues getting the monitor up and running, a new SO2 monitor would be established and Whitmore would be left in place. This morning, I visited the area with representatives of OPPD and DCHD to evaluate possible sites to install the monitor, and two locations appeared feasible. Locations and site photos are included in the attachment.

Site 1 may be preferable because it is within a secure fenced area through which entry through a guard shack is required and is already level and paved, thus minimizing the site prep required and offering the most secure location for the monitoring trailer. It is also preferable over Site 2 because dust and possible interference from road and rail traffic will be minimized. However, this is within the fenceline of North Omaha station, which raises concerns about whether it can be considered a valid monitor location for ambient air.

For the latter reason, Site 2 may be preferable. However, again, the parking area is dirt/gravel and dust from this area will require additional maintenance of the monitor stack. It is also within a public access area which, although it would be fenced, may present issues with vandalism. Also as noted above and visible in the attachment, it is along Pershing Blvd. and very near rail line, which may present some interference concerns.

Please let us know, as soon as possible, whether EPA has a preference for one site over the other, or either would be acceptable. DCHD has begun the process of ordering the necessary equipment, but OPPD will require as much lead time as possible to address any site prep issues required, including running electricity, to have the trailer in place and monitoring begun by January 1.

Thanks, and please let me know if you have any questions,

Carrie

Carrie Wiese

Carrie Wiese

Supervisor – Air Quality Grants, Planning and Outreach Unit

Nebraska Department of Environmental Quality

1200 N Street, Suite 400

Lincoln, NE 68508

(402)471-6624, carrie.wiese@nebraska.gov

To: Wiese, Carrie[carrie.wiese@nebraska.gov]; Peter, David[peter.david@epa.gov]

Cc: Stoner, Kevin J[kevin.j.stoner@nebraska.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]

From: Avey, Lance

Sent: Fri 10/21/2016 2:29:49 PM

Subject: RE: North Omaha Station - Possible SO2 Monitoring Site Evaluation

OPPD siting.png

Hi Carrie,

Thanks for getting the new proposed sites and this information together so quickly. From the technical side, my preference is Site 2 as the modeling predicts that is where we see the greatest potential impacts from OPPD emissions. For Site 1, that was considered on OPPD property, and thus no modeling "receptors" were placed near Site 1 and thus no evaluation of Site 1 in terms of modeled impacts can be done. I attached the modeling results nearby OPPD with the locations of proposed Sites 1 &2 and current Whitmore. Basically, the red dots represent where the modeling predicts the greatest impacts from OPPD emissions. And as you can see that is around Site 2.

At the same time, I understand the interference concerns that you have for Site 2. We will see if the monitoring group shares your interference concerns and pass along their thoughts on the two proposed sites. Hopefully a quick turnaround response can be provided early next week.

Thanks again,

Lance

Lance Avey

EPA Region 7

11201 Renner Boulevard

Lenexa, Kansas 66219

(913) 551-7809

avey.lance@epa.gov

From: Wiese, Carrie [mailto:carrie.wiese@nebraska.gov]

Sent: Thursday, October 20, 2016 3:17 PM

To: Avey, Lance <Avey.Lance@epa.gov>; Peter, David <peter.david@epa.gov>

Cc: Stoner, Kevin J <kevin.j.stoner@nebraska.gov>

Subject: North Omaha Station - Possible SO2 Monitoring Site Evaluation

Importance: High

Good afternoon, Lance and David:

Earlier this week, we spoke with OPPD and Douglas County Health Department regarding the concerns with moving the Whitmore monitor. What was decided as a group was that, rather than running risks with the ozone data for Whitmore and also the potential for having no SO2 data for the new site as of January 1 if there should be any issues getting the monitor up and running, a new SO2 monitor would be established and Whitmore would be left in place. This morning, I visited the area with representatives of OPPD and DCHD to evaluate possible sites to install the monitor, and two locations appeared feasible. Locations and site photos are included in the attachment.

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Please let us know, as soon as possible, whether EPA has a preference for one site over the other,

or either would be acceptable. DCHD has begun the process of ordering the necessary equipment, but OPPD will require as much lead time as possible to address any site prep issues required, including running electricity, to have the trailer in place and monitoring begun by January 1.

Thanks, and please let me know if you have any questions,

Carrie

Carrie Wiese

Carrie Wiese

Supervisor – Air Quality Grants, Planning and Outreach Unit

Nebraska Department of Environmental Quality

1200 N Street, Suite 400

Lincoln, NE 68508

(402)471-6624, carrie.wiese@nebraska.gov

To: Avey, Lance[Avey.Lance@epa.gov]

Cc: Wharton, Tracy[tracy.wharton@nebraska.gov]; Peter, David[peter.david@epa.gov]; Algoe-

Eakin, Amy[Algoe-Eakin.Amy@epa.gov]

From: Wiese, Carrie

Sent: Tue 10/11/2016 8:05:44 PM

Subject: RE: North Omaha SO2 monitoring - moving Whitmore

Good afternoon, all:

I'm following up on my message from a couple of weeks ago – specifically "One issue that DCHD mentioned is that the set-up at Whitmore also includes an ozone analyzer that shares equipment (software, data logger, etc.) with the SO2 analyzer. Essentially, the only way to have the system up and running by January 1 would be to move everything, including the ozone equipment. However, this would cause that particular location to fall short of the three years of ozone data (it's now been in place for 2 seasons). Would this present an issue with ozone attainment data?"

Has anyone been able to address this?

Thanks!

Carrie

From: Wiese, Carrie

Sent: Friday, September 30, 2016 10:53 AM

To: Avey, Lance

Cc: Wharton, Tracy; Peter, David; Algoe-Eakin, Amy

Subject: RE: North Omaha SO2 monitoring - moving Whitmore

Thanks very much for all of your help, Lance!

From: Avey, Lance [mailto:Avey.Lance@epa.gov] Sent: Friday, September 30, 2016 10:38 AM

To: Wiese, Carrie

Cc: Wharton, Tracy; Peter, David; Algoe-Eakin, Amy

Subject: RE: North Omaha SO2 monitoring - moving Whitmore

Hi Carrie,

Thanks for the information. On your last paragraph, yes, I have the modeling ranking analysis to justify the new location. When you know the exact location of the re-located Whitmore monitor (latitude, longitude), make a similar table to Table E-1 of the updated Sheldon Station Attachment and include that in the updated attachment for North Omaha.

I am checking with some of our monitoring folks (who are out of the office today) if the updated network plan would need to be placed on public notice and if re-locating Whitmore would cause any ozone consequences.

Thanks

Lance

Lance Avey

EPA Region 7

11201 Renner Boulevard

Lenexa, Kansas 66219

(913) 551-7809

avey.lance@epa.gov

From: Wiese, Carrie [mailto:carrie.wiese@nebraska.gov]

Sent: Friday, September 30, 2016 9:02 AM

To: Peter, David <peter.david@epa.gov>; Avey, Lance <Avey.Lance@epa.gov>; Algoe-Eakin, Amy <Algoe-Eakin.Amy@epa.gov> Cc: Wharton, Tracy <tracy.wharton@nebraska.gov> Subject: North Omaha SO2 monitoring - moving Whitmore Good morning, all: I wanted to update you on the discussions we've had internally and with OPPD and Douglas County Health Department (the local air agency that does the monitoring in that area), regarding the North Omaha SO2 monitor. At this time, it sounds like the preference for all involved would be to move the Whitmore monitor to the area of the ball fields just south of North Omaha Station, indicated as the area of highest impact from the modeling we conducted. One issue that DCHD mentioned is that the setup at Whitmore also includes an ozone analyzer that shares equipment (software, data logger, etc.) with the SO2 analyzer. Essentially, the only way to have the system up and running by January 1 would be to move everything, including the ozone equipment. However, this would cause that particular location to fall short of the three years of ozone data (it's now been in place for 2 seasons). Would this present an issue with ozone attainment data? Lance, I also wanted to check in with you regarding the ranking analysis, etc., to justify placement. In a modeling update from Lisa, she indicated that she had sent the completed site evaluation to you. Have we, then, completed everything with the ranking analysis that's needed to update the attachment? Also, how should we proceed with the network plan? If we're moving the Whitmore monitor, I would think this would constitute a sufficiently major change to what was proposed July 1 that we'd need to public notice again? Thanks, Carrie Carrie Wiese

Carrie Wiese

Supervisor – Air Quality Grants, Planning and Outreach Unit

Nebraska Department of Environmental Quality

1200 N Street, Suite 400

Lincoln, NE 68508

(402)471-6624, carrie.wiese@nebraska.gov

To: Avey, Lance[Avey.Lance@epa.gov]
Cc: Wharton, Tracy[tracy.wharton@nebraska.gov]; Peter, David[peter.david@epa.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]
From: Wiese, Carrie
Sent: Fri 9/30/2016 3:53:01 PM
Subject: RE: North Omaha SO2 monitoring - moving Whitmore

Thanks very much for all of your help, Lance!

From: Avey, Lance [mailto:Avey.Lance@epa.gov] Sent: Friday, September 30, 2016 10:38 AM

To: Wiese, Carrie

Cc: Wharton, Tracy; Peter, David; Algoe-Eakin, Amy

Subject: RE: North Omaha SO2 monitoring - moving Whitmore

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Thanks

Lance

Lance Avey

EPA Region 7

11201 Renner Boulevard

Lenexa, Kansas 66219

(913) 551-7809

avey.lance@epa.gov

From: Wiese, Carrie [mailto:carrie.wiese@nebraska.gov]

Sent: Friday, September 30, 2016 9:02 AM

To: Peter, David <peter.david@epa.gov>; Avey, Lance <Avey.Lance@epa.gov>; Algoe-Eakin,

Amy <Algoe-Eakin.Amy@epa.gov>

Cc: Wharton, Tracy <tracy.wharton@nebraska.gov>

Subject: North Omaha SO2 monitoring - moving Whitmore

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Lance, I also wanted to check in with you regarding the ranking analysis, etc., to justify placement. In a modeling update from Lisa, she indicated that she had sent the completed site evaluation to you. Have we, then, completed everything with the ranking analysis that's needed to update the attachment? Also, how should we proceed with the network plan? If we're moving the Whitmore monitor, I would think this would constitute a sufficiently major change to

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Γhanks,
Carrie
Carrie Wiese
Carrie Wiese
Supervisor – Air Quality Grants, Planning and Outreach Unit
Nebraska Department of Environmental Quality
1200 N Street, Suite 400
Lincoln, NE 68508
(402)471-6624, carrie.wiese@nebraska.gov

To: Wiese, Carrie[carrie.wiese@nebraska.gov]

Cc: Wharton, Tracy[tracy.wharton@nebraska.gov]; Peter, David[peter.david@epa.gov]; Algoe-

Eakin, Amy[Algoe-Eakin.Amy@epa.gov]

From: Avey, Lance

Sent: Fri 9/30/2016 3:37:54 PM

Subject: RE: North Omaha SO2 monitoring - moving Whitmore

Hi Carrie,

Thanks for the information. On your last paragraph, yes, I have the modeling ranking analysis to justify the new location. When you know the exact location of the re-located Whitmore monitor (latitude, longitude), make a similar table to Table E-1 of the updated Sheldon Station Attachment and include that in the updated attachment for North Omaha.

I am checking with some of our monitoring folks (who are out of the office today) if the updated network plan would need to be placed on public notice and if re-locating Whitmore would cause any ozone consequences.

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Carrie Wiese

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To: Peter, David[peter.david@epa.gov]; Avey, Lance[Avey.Lance@epa.gov]; Algoe-Eakin,

Amy[Algoe-Eakin.Amy@epa.gov]

Cc: Wharton, Tracy[tracy.wharton@nebraska.gov]

From: Wiese, Carrie

Sent: Fri 9/30/2016 2:01:54 PM

Subject: North Omaha SO2 monitoring - moving Whitmore

Good morning, all:

I wanted to update you on the discussions we've had internally and with OPPD and Douglas County Health Department (the local air agency that does the monitoring in that area), regarding the North Omaha SO2 monitor.

At this time, it sounds like the preference for all involved would be to move the Whitmore monitor to the area of the ball fields just south of North Omaha Station, indicated as the area of highest impact from the modeling we conducted. One issue that DCHD mentioned is that the set-up at Whitmore also includes an ozone analyzer that shares equipment (software, data logger, etc.) with the SO2 analyzer. Essentially, the only way to have the system up and running by January 1 would be to move everything, including the ozone equipment. However, this would cause that particular location to fall short of the three years of ozone data (it's now been in place for 2 seasons). Would this present an issue with ozone attainment data?

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Carrie Wiese

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Supervisor – Air Quality Grants, Planning and Outreach Unit

Nebraska Department of Environmental Quality

1200 N Street, Suite 400

Lincoln, NE 68508

(402)471-6624, carrie.wiese@nebraska.gov

To: Avey, Lance[Avey.Lance@epa.gov]; 'Wiese, Carrie'[carrie.wiese@nebraska.gov]; Wharton, Tracy[tracy.wharton@nebraska.gov]; Hamilton, Heather[Hamilton.Heather@epa.gov]; Hawkins, Andy[hawkins.andy@epa.gov]; Peter, David[peter.david@epa.gov]; McGraw, Jim [DNR][jim.mcgraw@dnr.iowa.gov]; brad.ashton@dnr.iowa.gov[brad.ashton@dnr.iowa.gov]; Krzak, Jennifer [DNR][Jennifer.Krzak@dnr.iowa.gov]

Cc: Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]

From: Johnson, Matthew [DNR]
Sent: Wed 8/31/2016 8:51:39 PM

Subject: RE: call to discuss Omaha/Council Bluffs SO2 DRR work - 9/8/16, 9 am

removed.txt

Time confirmed, thank you everyone.

Thursday September 8, 2016, 9:00 am (CDT)

We'll use the Iowa DNR Conf Call Line:

Ex. 6 - Personal Privacy

MATTHEW JOHNSON, Long Range Planning & Regional Modeling



Iowa Department of Natural Resources

P 515.725.9554 | F 515.725.9501 | matthew.johnson@dnr.iowa.gov

Air Quality Bureau | 7900 Hickman Rd., Ste. 1 | Windsor Heights, IA 50324

www.IowaCleanAir.gov | Air Construction Permit Hotline 877.247.4692

WWW.IOWADNR.GOV

4150

Leading Iowans in Caring for Our Natural Resources.

From: Johnson, Matthew [DNR] [mailto:Matthew.Johnson@dnr.iowa.gov]

Sent: Wednesday, August 31, 2016 2:40 PM

To: Hamilton, Heather < Hamilton. Heather@epa.gov >

Cc: Avey, Lance <<u>Avey.Lance@epa.gov</u>>; Hawkins, Andy <<u>hawkins.andy@epa.gov</u>>; Peter,

David peter.david@epa.gov>; McGraw, Jim [DNR] <<pre>jim.mcgraw@dnr.iowa.gov>;

brad.ashton@dnr.iowa.gov; Krzak, Jennifer [DNR] < Jennifer.Krzak@dnr.iowa.gov >; Carrie

Wiese (carrie.wiese@nebraska.gov) < carrie.wiese@nebraska.gov>; Tracy Wharton

(tracy.wharton@nebraska.gov) < tracy.wharton@nebraska.gov>

Subject: call to discuss Omaha/Council bluffs SO2 DRR work

Hello Heather (and all),

We've spoken with Nebraska and provided an update regarding the 1-hour SO2 modeling analyses we've conducted for Walter Scott and OPPD for the data requirement rule. We'd like to have a NE/IA/EPA R7 call to discuss the results. Assuming our planning call next week won't take the full 1.5 hours, would EPA R7 be available for this call at 10 am Wed September 7?

Thanks,

Matthew

To: 'Wiese, Carrie'[carrie.wiese@nebraska.gov]; Avey, Lance[Avey.Lance@epa.gov]; Hamilton, Heather[Hamilton.Heather@epa.gov]

Cc: Hawkins, Andy[hawkins.andy@epa.gov]; Peter, David[peter.david@epa.gov]; McGraw, Jim [DNR][jim.mcgraw@dnr.iowa.gov]; brad.ashton@dnr.iowa.gov[brad.ashton@dnr.iowa.gov]; Krzak, Jennifer [DNR][Jennifer.Krzak@dnr.iowa.gov]; Wharton, Tracy[tracy.wharton@nebraska.gov]; Algoe-Fakin Amy@ana.gov]

Eakin, Amy[Algoe-Eakin.Amy@epa.gov]
From: Johnson, Matthew [DNR]
Sent: Wed 8/31/2016 8:14:54 PM

Subject: RE: call to discuss Omaha/Council bluffs SO2 DRR work

Does Thursday Sep 8, at 9 am work for everyone?

From: Wiese, Carrie [mailto:carrie.wiese@nebraska.gov]

Sent: Wednesday, August 31, 2016 3:14 PM

To: Avey, Lance <Avey.Lance@epa.gov>; Johnson, Matthew [DNR]

<Matthew.Johnson@dnr.iowa.gov>; Hamilton, Heather < Hamilton.Heather@epa.gov>

Cc: Hawkins, Andy hawkins.andy@epa.gov">hawkins.andy@epa.gov; Peter, David peter.david@epa.gov; McGraw, Jim [DNR] hawkins.andy@epa.gov; Ashton, Brad [DNR] hawkins.andy@epa.gov; Ashton (BNR) hawkins.andy@epa.gov; Ashton (BNR) hawkins.andy@epa.gov; Ashton (BNR) hawkins.andy@epa.gov; Ashton (BNR) hawkins.andy@gnw.iowa.gov; Ashton (BNR) hawkin

Krzak, Jennifer [DNR] < Jennifer.Krzak@dnr.iowa.gov>; Wharton, Tracy

<tracy.wharton@nebraska.gov>; Algoe-Eakin, Amy <Algoe-Eakin.Amy@epa.gov>

Subject: RE: call to discuss Omaha/Council bluffs SO2 DRR work

It looks like Thursday could also work for us before 11:00 a.m.

From: Avey, Lance [mailto:Avey.Lance@epa.gov]
Sent: Wednesday, August 31, 2016 3:10 PM
To: Johnson, Matthew [DNR]; Hamilton, Heather

Cc: Hawkins, Andy; Peter, David; McGraw, Jim [DNR]; <a href="broken:brok

[DNR]; Wiese, Carrie; Wharton, Tracy; Algoe-Eakin, Amy

Subject: RE: call to discuss Omaha/Council bluffs SO2 DRR work

Hi Matthew,

The one day next week that does not work for me (or Andy) would be Sept. 7. Would Tuesday (6th) or Thursday (8th) work?

Thanks
Lance
Lance Avey
EPA Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219
(913) 551-7809
avey.lance@epa.gov
From: Johnson, Matthew [DNR] [mailto:Matthew.Johnson@dnr.iowa.gov] Sent: Wednesday, August 31, 2016 2:40 PM To: Hamilton, Heather < Hamilton.Heather@epa.gov> Cc: Avey, Lance < Avey.Lance@epa.gov>; Hawkins, Andy < hawkins.andy@epa.gov>; Peter, David < peter.david@epa.gov>; McGraw, Jim [DNR] < jim.mcgraw@dnr.iowa.gov>; brad.ashton@dnr.iowa.gov; Krzak, Jennifer [DNR] < Jennifer.Krzak@dnr.iowa.gov>; Carrie Wiese (carrie.wiese@nebraska.gov) < carrie.wiese@nebraska.gov>; Tracy Wharton (tracy.wharton@nebraska.gov) < tracy.wharton@nebraska.gov> Subject: call to discuss Omaha/Council bluffs SO2 DRR work
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Thanks,

Matthew

To: Avey, Lance[Avey.Lance@epa.gov]; Hamilton, Heather[Hamilton.Heather@epa.gov]; Tracy Wharton (tracy.wharton@nebraska.gov)[tracy.wharton@nebraska.gov]; Carrie Wiese (carrie.wiese@nebraska.gov)[carrie.wiese@nebraska.gov]; Hawkins, Andy[hawkins.andy@epa.gov] Peter, David[peter.david@epa.gov]; McGraw, Jim [DNR][jim.mcgraw@dnr.iowa.gov]; brad.ashton@dnr.iowa.gov[brad.ashton@dnr.iowa.gov]; Krzak, Jennifer [DNR][Jennifer.Krzak@dnr.iowa.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov] Johnson, Matthew [DNR] Wed 8/31/2016 8:12:21 PM Sent: Subject: RE: call to discuss Omaha/Council bluffs SO2 DRR work Thursday would work for Iowa. Nebraska – will it work for you? From: Avey, Lance [mailto:Avey,Lance@epa.gov] Sent: Wednesday, August 31, 2016 3:10 PM To: Johnson, Matthew [DNR] < Matthew.Johnson@dnr.iowa.gov>; Hamilton, Heather <Hamilton.Heather@epa.gov> Cc: Hawkins, Andy hawkins.andy@epa.gov; Peter, David peter.david@epa.gov; McGraw, Jim [DNR] <jim.mcgraw@dnr.iowa.gov>; Ashton, Brad [DNR] <Brad.Ashton@dnr.iowa.gov>; Krzak, Jennifer [DNR] < Jennifer. Krzak@dnr.iowa.gov>; Carrie Wiese (carrie.wiese@nebraska.gov) < carrie.wiese@nebraska.gov>; Tracy Wharton (tracy.wharton@nebraska.gov) < tracy.wharton@nebraska.gov>; Algoe-Eakin, Amy < Algoe-Eakin.Amy@epa.gov> Subject: RE: call to discuss Omaha/Council bluffs SO2 DRR work Hi Matthew, The one day next week that does not work for me (or Andy) would be Sept. 7. Would Tuesday (6th) or Thursday (8th) work? Thanks

Lance

Lance Avey EPA Region 7 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7809 avey.lance@epa.gov From: Johnson, Matthew [DNR] [mailto:Matthew.Johnson@dnr.iowa.gov] Sent: Wednesday, August 31, 2016 2:40 PM To: Hamilton, Heather < Hamilton. Heather@epa.gov > Cc: Avey, Lance < Avey. Lance@epa.gov >; Hawkins, Andy < hawkins.andy@epa.gov >; Peter, David peter.david@epa.gov>; McGraw, Jim [DNR] <jim.mcgraw@dnr.iowa.gov>; brad.ashton@dnr.iowa.gov; Krzak, Jennifer [DNR] < Jennifer.Krzak@dnr.iowa.gov >; Carrie Wiese (carrie.wiese@nebraska.gov) < carrie.wiese@nebraska.gov>; Tracy Wharton (tracy.wharton@nebraska.gov) <tracy.wharton@nebraska.gov> Subject: call to discuss Omaha/Council bluffs SO2 DRR work Hello Heather (and all), We've spoken with Nebraska and provided an update regarding the 1-hour SO2 modeling to have a NE/IA/EPA R7 call to discuss the results. Assuming our planning call next week

analyses we've conducted for Walter Scott and OPPD for the data requirement rule. We'd like won't take the full 1.5 hours, would EPA R7 be available for this call at 10 am Wed September

Thanks,

Matthew

To: Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]; Wilbur, Emily[emily.wilbur@dnr.mo.gov]
Cc: Peter, David[peter.david@epa.gov]; Hawkins, Andy[hawkins.andy@epa.gov]; Brown,

Steven[Brown.Steven@epa.gov]; Avey, Lance[Avey.Lance@epa.gov]

From: Bybee, Darcy

Sent: Wed 7/13/2016 8:26:45 PM

Subject: RE: FYI- Region 7 Comments on MDNR DRR modeling protocol

Thank you Amy and Andy—we will review the comments and let Andy know of any questions.

Thanks,

Darcy

Darcy A. Bybee

Air Pollution Control Program

Promoting, Protecting and Enjoying our Natural Resources. Learn more at dnr.mo.gov.

From: Algoe-Eakin, Amy [mailto:Algoe-Eakin.Amy@epa.gov]

Sent: Wednesday, July 13, 2016 3:09 PM

To: Bybee, Darcy; Wilbur, Emily

Cc: Peter, David; Hawkins, Andy; Brown, Steven; Avey, Lance

Subject: FYI- Region 7 Comments on MDNR DRR modeling protocol

Emily and Darcy,

Thank you for providing the protocol for DRR modeling. Overall, Andy has reviewed and believes the document looks good.

We consider the comments below informal, as we believe the DRR modeling protocol is a living document. It is our desire to be reasonable and work with you to address issues which may invariably arise and the

modeling protocol may need to be adjusted.

For specifics related to the comments below, please feel free to directly discuss with Andy.

- 1. Section 3.3 if the department is aware of fixed release parameters different than in MoEIS they should be evaluated for use. For example, RATA data contains stack parameters at varying loads. There may be other stack testing data the department has that can be used. MDNR should attempt to avoid using stack parameters not reflecting normal actual operations that may lead to under predicted modeling concentrations. Modeling with stack parameters under varying load scenarios may be appropriate if stack temp and exit velocity parameters are fixed while emissions vary. This is especially true if the modeled design value is close to the NAAQS or if there is wide range of stack exit conditions that can't be represented by a fixed parameter.
- 2. Section 3.4 A hot spot analysis may be necessary if high modeled results occur in areas with large receptor spacing distance. This might occur for those sources with tall stacks whose maximum impacts may extend downwind and in areas of terrain or next to other smaller sources of SO2 emissions where there is an interaction.
- 3. Section 3.6 please consider specifying if monthly or seasonal assignments will be used in AERSURFACE.
- 4. Section 4.1 please work with EPA should the background methodology vary substantially over past MDNR analysis. We agree that each area should be evaluated independently and discussed in the final report.

5. Pg 18 contains this statement...All monitors being sited to comply with the DRR must be operational no later than January 1, 2017. Should any new monitors not be operational by that date, the source will move to the modeling pathway to characterize air quality and the analysis will follow this protocol for modeled sources. — There is uncertainty about this statement and we might want to talk about this further to understand context.

Amy Algoe-Eakin, Section Chief

U.S. EPA Region 7

Air & Waste Management Division

Air Planning and Development Branch

(913) 551-7942 (Office)

(913) 424-8853 (Cell)

11201 Renner Boulevard, Lenexa KS 66219 algoe-eakin.amy@epa.gov



To: Wiese, Carrie[carrie.wiese@nebraska.gov]

Cc: Schneider, Shelley[shelley.schneider@nebraska.gov]; Crable,

Gregory[Crable.Gregory@epa.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]

From: Avey, Lance

Sent: Wed 7/13/2016 1:05:12 PM
Subject: RE: Monitoring/modeling TAD

Hi Carrie,

Also asked on the call yesterday was what other Region 7 states were doing in terms of monitoring for the SO2 DRR. Iowa and Kansas are not monitoring for any DRR sources. Here is a link to Missouri's 2016 air monitoring plan, with the Appendices 2-4 describing the modeling process used by MDNR to site SO2 monitors:

https://dnr.mo.gov/env/apcp/docs/2016monitoringnetworkplan.pdf

Lance

Lance Avey

EPA Region 7

11201 Renner Boulevard

Lenexa, Kansas 66219

(913) 551-7809

avey.lance@epa.gov

From: Wiese, Carrie [mailto:carrie.wiese@nebraska.gov]

Sent: Tuesday, July 12, 2016 3:29 PM **To:** Avey, Lance <Avey.Lance@epa.gov>

Cc: Schneider, Shelley <shelley.schneider@nebraska.gov>

Subject: Monitoring/modeling TAD

Hi Lance,

I was wondering if you could send a final copy of the monitoring TAD/appendix referencing modeling that you discussed in our call this afternoon? We have had a hard time finding anything online, and the document we did locate is labeled "draft".

Thanks! Carrie

Carrie Wiese

Carrie Wiese

Supervisor – Air Quality Grants, Planning and Outreach Unit

Nebraska Department of Environmental Quality

1200 N Street, Suite 400

Lincoln, NE 68508

(402)471-6624, carrie.wiese@nebraska.gov

Cc: Schneider, Shelley[shelley.schneider@nebraska.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]; Crable, Gregory[Crable.Gregory@epa.gov] From: Avey, Lance Sent: Tue 7/12/2016 8:44:12 PM Subject: RE: Monitoring/modeling TAD
Hi Carrie,
Here is a link to latest Draft SO2 Monitoring TAD (it is always subject to change and thus not final):
https://www.epa.gov/sites/production/files/2016-04/documents/so2monitoring tad.pdf
Appendix A provides the recommended example of a modeling demonstration to inform monitoring placement for 1-hr SO2. You can see the "ranking" analysis I described on the call within this Appendix.
Also, here is a link to the State of Georgia's air monitoring plan where they performed this ranking analysis to site a monitor for a DRR source (see pages 111-139):
http://amp.georgiaair.org/docs/2016%20Ambient%20Air%20Monitoring%20Plan.pdf
Please let me know of any further questions.
Thanks Lance
Lance Avey

To:

Wiese, Carrie[carrie.wiese@nebraska.gov]

EPA Region 7

11201 Renner Boulevard

Lenexa, Kansas 66219

(913) 551-7809

avey.lance@epa.gov

From: Wiese, Carrie [mailto:carrie.wiese@nebraska.gov]

Sent: Tuesday, July 12, 2016 3:29 PM **To:** Avey, Lance <Avey.Lance@epa.gov>

Cc: Schneider, Shelley <shelley.schneider@nebraska.gov>

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Supervisor – Air Quality Grants, Planning and Outreach Unit

Nebraska Department of Environmental Quality

1200 N Street, Suite 400

Lincoln, NE 68508

(402)471-6624, carrie.wiese@nebraska.gov

To: Brown, Steven[Brown.Steven@epa.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov] Cc: Bybee, Darcy[darcy.bybee@dnr.mo.gov]; Wilbur, Emily[emily.wilbur@dnr.mo.gov]; Keas,

Ashley[Ashley.Keas@dnr.mo.gov]

From: Bechtel, Cheri

Sent: Tue 6/28/2016 4:43:29 PM

Subject: FW: DRR for the 2010 1-hour SO2 NAAQS

attachment 1-sources-affected-by-drr.pdf

DRR letter.pdf

This bounced back due to the size of the attachments. Attached are some of the documents required for the July submittal. Attachments 2 and 3 will be forthcoming via ftp since they are larger.

Thanks,

Cheri Bechtel

Air Pollution Control Program

573-751-8308

cheri.bechtel@dnr.mo.gov

Promoting, Protecting and Enjoying our Natural Resources. Learn more at dnr.mo.gov.

From: Bechtel, Cheri

Sent: Tuesday, June 28, 2016 10:44 AM

To: Brown.Steven@epamail.epa.gov; algoe-eakin.amy@epa.gov

Cc: Bybee, Darcy; Wilbur, Emily; Keas, Ashley Subject: DRR for the 2010 1-hour SO2 NAAQS

Attached are the DRR for the 2010 1-hour SO2 NAAQS and attachments. Please let me know if anything else is needed.

Thanks very much,

Cheri Bechtel

Air Pollution Control Program

573-751-8308

cheri.bechtel@dnr.mo.gov

Promoting, Protecting and Enjoying our Natural Resources. Learn more at <u>dnr.mo.gov</u>.

To: Hall, Stephen[stephen.hall@dnr.mo.gov]

Cc: Davis, Michael[Davis.Michael@epa.gov]; Brown, Steven[Brown.Steven@epa.gov]; Peter, David[peter.david@epa.gov]; patricia.maliro@dnr.mo.gov[patricia.maliro@dnr.mo.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]; Bybee, Darcy[darcy.bybee@dnr.mo.gov]; Moore, Kyra[kyra.moore@dnr.mo.gov]; Hawkins, Andy[hawkins.andy@epa.gov]; Wilbur,

Emily[emily.wilbur@dnr.mo.gov]

From: Grooms, Leland

Sent: Fri 5/27/2016 10:14:30 PM

Subject: Re: MO 2016 Monitoring Network Plan Posted

Thanks Steve!

From: Hall, Stephen <stephen.hall@dnr.mo.gov>

Sent: Friday, May 27, 2016 4:19:09 PM

To: Grooms, Leland

Cc: Davis, Michael; Brown, Steven; Peter, David; patricia.maliro@dnr.mo.gov; Algoe-Eakin, Amy; Bybee,

Darcy; Moore, Kyra; Hawkins, Andy; Wilbur, Emily **Subject:** MO 2016 Monitoring Network Plan Posted

Lee,

We posted the Missouri 2016 Monitoring Network Plan for public inspection today. It is available at the following link:

http://dnr.mo.gov/env/apcp/airpollutants.htm#monitoringnetworkplan

There is one slight change in the Buick SO2 network based on a discussion we had with Doe Run staff this week. Rather than proposing the sawmill site, they proposed the location of the former SO2 monitoring site used in their preconstruction PSD project several years ago (circa 2006). This location already has electrical power established and is located less than ¼ mile east of the sawmill site you visited. This former PSD monitoring site location is still in the area of modeled SO2 impact. Historical preconstruction SO2 monitoring data obtained at this location is summarized in our 2011 Monitoring Network Plan on pages 18 and 19 and is available at this link: http://dnr.mo.gov/env/apcp/docs/2011monitoringnetwork.pdf

Patricia Maliro will follow up with you next week regarding these details.

Stephen M. Hall

Air Quality Analysis Section Chief

Air Pollution Control Program

Missouri Department of Natural Resources

1659A E. Elm St., Jefferson City, MO 65102-0176

Phone: 573-526-1985

Promoting, Protecting and Enjoying our Natural Resources. Learn more at <u>dnr.mo.gov</u>.

To: Grooms, Leland[Grooms.Leland@epa.gov]

Cc: Davis, Michael[Davis.Michael@epa.gov]; Brown, Steven[Brown.Steven@epa.gov]; Peter, David[peter.david@epa.gov]; patricia.maliro@dnr.mo.gov[patricia.maliro@dnr.mo.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]; Bybee, Darcy[darcy.bybee@dnr.mo.gov]; Moore, Kyra[kyra.moore@dnr.mo.gov]; Hawkins, Andy[hawkins.andy@epa.gov]; Wilbur, Emily[emily.wilbur@dnr.mo.gov]

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Sent: Fri 5/27/2016 9:19:09 PM

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Stephen M. Hall

Air Quality Analysis Section Chief

Air Pollution Control Program

Missouri Department of Natural Resources

1659A E. Elm St., Jefferson City, MO 65102-0176

Phone: 573-526-1985

To: From: Sent: Subject: possible a	Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov] Bybee, Darcy Mon 4/18/2016 2:14:04 PM RE: Quarterly Meeting genda topics for April 2016.docx
Hi, Amy,	
	s what we had drafted up…we could also discuss any rulemaking items that you all wanted icity, CAIR rules, general rule status). Also, I think that Steve may have had some monitoring rell…
I just got a	n email from Mike as wellI am responding similarly to him ☺
Thanks,	
Darcy	
Darcy A. E	Bybee
Air Pollutio	on Control Program
Promotin	g, Protecting and Enjoying our Natural Resources. Learn more at <u>dnr.mo.gov</u> .
Sent: Mor To: Bybee	oe-Eakin, Amy [mailto:Algoe-Eakin.Amy@epa.gov] nday, April 18, 2016 8:39 AM r, Darcy RE: Quarterly Meeting
Hi Darcy	,
I was off	on Friday as well.

Do you folks have thoughts on an agenda? I know we need to discuss SO2 & ozone status and perhaps some rulemaking related to SSM but what other items are you thinking?
From: Bybee, Darcy [mailto:darcy.bybee@dnr.mo.gov] Sent: Thursday, April 14, 2016 4:02 PM To: Algoe-Eakin, Amy < Algoe-Eakin.Amy@epa.gov> Subject: RE: Quarterly Meeting
Hi, Amy,
Just wanted to let you know that I'll be out of the office tomorrow—if you need anything for next Tuesday, both Emily and Wayne will be in the office ©
Have a great weekend!
Thanks,
Darcy
Darcy A. Bybee
Air Pollution Control Program
Promoting, Protecting and Enjoying our Natural Resources. Learn more at <u>dnr.mo.gov</u> .
From: Bybee, Darcy Sent: Thursday, April 14, 2016 9:04 AM

To: Algoe-Eakin, Amy (<u>Algoe-Eakin.Amy@epa.gov</u>) Subject: RE: Quarterly Meeting
Hi, Amy,
If you all know more about the grants that were announced last week, that would be great. If not, w wouldn't probably add it to the agenda. We would have our F&B folks call in for that portion
Thanks,
Darcy
Darcy A. Bybee
Air Pollution Control Program
Promoting, Protecting and Enjoying our Natural Resources. Learn more at <u>dnr.mo.gov</u> .
From: Algoe-Eakin, Amy [mailto:Algoe-Eakin.Amy@epa.gov] Sent: Wednesday, April 13, 2016 9:02 PM To: Bybee, Darcy Subject: Re: Quarterly Meeting
Hi Darcy, do you think you'll want to talk grant funding on Tuesday?
Sent from my iPhone
On Apr 13, 2016, at 2:58 PM, Bybee, Darcy < darcy.bybee@dnr.mo.gov > wrote:
Hi, Amy,
I was just checking in on your thoughts for an agenda for next week's meeting - I know that we brought it up during our call, but I just realized that we haven't yet lined out our travel plans from the APCP. Depending on the level of 'Rule-type' topics. Wayne may or may not attend

He is fine with being on-call until we finalize the agenda, and just deciding later this week, but I told him I would check in with you ☺
Thanks!!
Darcy
Darcy A. Bybee
Air Quality Planning Section Chief
Air Pollution Control Program
Missouri Department of Natural Resources
P.O. Box 176
Jefferson City, MO 65102-0176
Direct: (573) 751-7946
General Phone: (573) 751-4817 Fax: (573) 751-2706
darcy.bybee@dnr.mo.gov

Promoting, Protecting and Enjoying our Natural Resources. Learn more at dnr.mo.gov.

To: jlcitta@nppd.com[jlcitta@nppd.com]; carrie.wiese@nebraska.gov[carrie.wiese@nebraska.gov]; dennis.wright@stinsonleonard.com[dennis.wright@stinsonleonard.com]; javanek@nppd.com[javanek@nppd.com]; hlhadla@nppd.com[hlhadla@nppd.com]; mjspenc@nppd.com[mjspenc@nppd.com] Hawkins, Andy[hawkins.andy@epa.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]; Peter, David[peter.david@epa.gov] From: Avey, Lance Sent: Wed 4/6/2016 4:24:51 PM Subject: Guidance to establish 1-hr SO2 modeled emissions and permit limit All, Below is a link to the Modeling TAD for implementing the 2010 1-hr SO2 NAAQS: https://www3.epa.gov/airquality/sulfurdioxide/pdfs/SO2ModelingTAD.pdf Within the TAD, Section 5.4 has a brief discussion on use of allowable emissions in designation modeling. Further detailed information on the methodology to develop a modeled emissions rate and permitted emission limit is provided in EPA's Guidance for 1-Hour SO2 Nonattainment Areas SIP Submissions: https://www3.epa.gov/airquality/sulfurdioxide/pdfs/20140423guidance.pdf The guidance describes and gives an example on how to develop a "critical" 1-hr modeled emissions rate to establish a new permit limit (i.e., 30 day rolling average) that account for variations in operations and sulfur content (i.e., variability analysis). Please let us know if you have questions or want further discussions on the these guidance documents. Thanks

Lance

Lance Avey

EPA Region 7

11201 Renner Boulevard

Lenexa, Kansas 66219

(913) 551-7809

avey.lance@epa.gov

To: Wilbur, Emily[emily.wilbur@dnr.mo.gov]; Abdul, Assem[assem.abdul@dnr.mo.gov]

Cc: patricia.maliro@dnr.mo.gov[patricia.maliro@dnr.mo.gov]; Hall, Stephen[stephen.hall@dnr.mo.gov]; Avey, Lance[Avey.Lance@epa.gov]; Peter, David[peter.david@epa.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]; Grooms,

Leland[Grooms.Leland@epa.gov]; Bybee, Darcy[darcy.bybee@dnr.mo.gov]

From: Hawkins, Andy

Fri 3/4/2016 7:30:50 PM Sent: Subject: RE: monitoring siting

Thanks Emily!

Yes the discussion with Assem was very helpful to understand what was happening in the technical analysis.

Andy Hawkins

EPA Region 7

11201 Renner Boulevard

Lenexa, Kansas 66219

(913) 551-7179 office

hawkins.andy@epa.gov

From: Wilbur, Emily [mailto:emily.wilbur@dnr.mo.gov]

Sent: Friday, March 04, 2016 1:28 PM

To: Hawkins, Andy hawkins.andy@epa.gov>; Abdul, Assem hawkins.andy@epa.gov>; Abdul, Assem hawkins.andy@epa.gov>; Abdul, Assem hawkins.andy@epa.gov>; Abdul, Assem hawkins.andy@epa.gov>; Abdul, Assem hawkins.andy@epa.gov> Cc: patricia.maliro@dnr.mo.gov; Hall, Stephen < stephen.hall@dnr.mo.gov>; Avey, Lance <Avey.Lance@epa.gov>; Peter, David <peter.david@epa.gov>; Algoe-Eakin, Amy <Algoe-</p> Eakin.Amy@cpa.gov>; Grooms, Lcland < Grooms.Lcland@cpa.gov>; Bybcc, Darcy

<darcy.bybee@dnr.mo.gov> Subject: RE: monitoring siting

Hi Andy,

Sorry I missed your call yesterday. I was at the Regform meeting. But it sounds like you spoke with Assem and he was able to help you with our modeling analysis. I have placed all of our Buick modeling files/analyses on our ftp site. You should be getting a separate email for that. If you do not receive it, please let me know. We are drafting a report to go along with it, but since it's still in draft, I did not include the document. We hope to be finished with it soon. But the supporting files should all be contained in the ftp package I sent you.

If	vou	have	any	questions	on the	modeling,	please	let me	know!

Thanks,

Emily

From: Hawkins, Andy [mailto:hawkins.andy@epa.gov]

Sent: Thursday, March 03, 2016 9:45 AM

To: Wilbur, Emily; Abdul, Assem

Cc: Maliro, Patricia; Hall, Stephen; Avey, Lance; Peter, David; Algoe-Eakin, Amy; Grooms, Leland

Subject: FW: monitoring siting

Emily/Assem,

Does the attached preliminary map modeling summary reflect the results of MDNR's technical analysis? Do you know if this modeling reflects the onsite met data at BRRF? Was a frequency analysis of daily maximums also performed? The statement below "we imagine placing two monitors", does that mean two monitors in addition to the current monitor location?

Any information you can provide on this attached modeling map or your modeling would be much appreciated as it appears preliminary sites are being selected and this is the first Lance or I have seen an analysis supporting monitor locations. Last I knew, via phone discussions with Assem, he had identified via modeling using TAD guidance some predicted locations higher than the current monitoring location, but I've not seen any of the MDNR modeling or results.

Lance and I will need to understand the basis of these model results and it would be good to have that information to inform Lee's visit, if possible.

TIA. Andy

Andy Hawkins

EPA Region 7

11201 Renner Boulevard

Lenexa, Kansas 66219

(913) 551-7179 office

hawkins.andy@epa.gov

From: Peter, David

Sent: Wednesday, March 02, 2016 1:30 PM

To: Algoe-Eakin, Amy < Algoe-Eakin. Amy@epa.gov>

Cc: Hawkins, Andy < hawkins.andy@epa.gov>; Avey, Lance < Avey.Lance@epa.gov>; Meyer,

Jonathan < Meyer. Jonathan @epa.gov >

Subject: FW: monitoring siting

FYI...

From: Maliro, Patricia [mailto:patricia.maliro@dnr.mo.gov]

Sent: Wednesday, March 02, 2016 1:27 PM

To: Grooms, Leland < Grooms. Leland@epa.gov >

Cc: Peter, David peter.david@epa.gov>; Hall, Stephen <stephen.hall@dnr.mo.gov>; Giroir,

Eric <eric.giroir@dnr.mo.gov> Subject: FW: monitoring siting Lee,

Eric Giroir in monitoring unit has arranged with Doe Run Buick to review potential SO2 monitoring sites near BRRF on Monday, March 7, 2016. Please let us know if your schedule will allow you join Eric on this trip; we can forward you additional contact information regarding the trip. A preliminary map from Doe Run Buick showing possible locations for monitoring is attached.

Thank you and let me know if you have any questions.

Patricia Maliro

Air Monitoring Unit Chief

Air Pollution Control Program

Missouri Department of Natural Resources

1659 East Elm St. Jefferson City, MO 65102

(573) 751-0750

patricia.maliro@dnr.mo.gov

Promoting, Protecting and Enjoying our Natural Resources. Learn more at dnr.mo.gov.

From: Crocker, Margaret [mailto:mcrocker@doerun.com]

Sent: Tuesday, February 02, 2016 5:04 PM

To: Wilbur, Emily

Cc: joseph@shellengr.com; Hall, Stephen; Bybee, Darcy; Abdul, Assem; Maliro, Patricia; Bodnar, Gen

Subject: RE: monitoring siting

Hi all,

I have attached a preliminary map showing the top 100 receptors (Average 4th highest modeled concentrations) in red. They are concentrated directly west of the plant entrance and east of the facility along the ambient boundary. At this point we imagine placing two monitors. One monitor directly across from the facility's entrance from Hwy KK on Doe Run Property and another monitor near the eastern ambient border, in the southern 1/3 of the red receptors, which is also Doe Run property.

If you have questions about this map or the proposed locations please let me know. I will coordinate a visit with the monitoring unit and we will look at the specific locations then.

Thanks,

Maggie Crocker

EHS Analyst

The Doe Run Company

573-626-3499

To: Peter, David[peter.david@epa.gov]

Cc: Schneider, Shelley[shelley.schneider@nebraska.gov]; Algoe-Eakin, Amy[Algoe-

Eakin.Amy@epa.gov]; Jay, Michael[Jay.Michael@epa.gov]; Wharton,

Tracy[tracy.wharton@nebraska.gov]

From: Wiese, Carrie

Sent: Thur 3/3/2016 9:23:43 PM

Subject: RE: Lon D Wright Facility SO2 Emissions

Good afternoon, Peter:

Upon further analysis, we see that the acid rain database for 2015 shows Unit 8 emitted a total of 989 tons of SO2; assuming the other units emitted similar amounts in 2015 as they did in 2014 (a reasonable assumption, given past performance), we would expect the total emissions for 2015 to be on the order of 1,700 tons. We have not yet received the 2015 emissions inventory but expect it soon (it is due by March 31), and we feel confident that with the current controls in place, the facility will remain below the 2,000 tpy threshold.

We will plan to follow up with you once we've received the 2015 NEI data, and can schedule a call at that time. Does this work for you?

Thanks!

Carrie Wiese

Carrie Wiese

Supervisor – Air Quality Grants, Planning and Outreach Unit

Nebraska Department of Environmental Quality

1200 N Street, Suite 400

Lincoln, NE 68508

(402)471-6624, carrie.wiese@nebraska.gov

From: Peter, David [mailto:peter.david@epa.gov] Sent: Tuesday, March 01, 2016 11:24 AM

To: Wiese, Carrie

Cc: Schneider, Shelley; Algoe-Eakin, Amy; Jay, Michael **Subject:** RE: Lon D Wright Facility SO2 Emissions

Carrie,

A month or so ago, I compared the 2014 NEI to each state's DRR list in Region 7 and discovered that the Lon D Wright facility reported SO_2 emissions greater than 2,000 tpy in 2014 and was not included in NDEQ's DRR list. You and I had some correspondence on this facility (see emails below). Recently, HQ staff did the same comparison of the 2014 NEI and each state's DRR list and they brought up the Lon D Wright facility. I therefore took another look at this facility.

It appears that the facility consists of three coal fired units – Boilers 6, 7 and 8. The city of Fremont reported the following SO₂ emissions in the 2014 NEI – Boiler 6 (253 tons), Boiler 7 (383 tons) and Boiler 8 (1,595 tons). Further, Fremont reported a facility-wide total of 2,232 tons of SO₂. Since Boiler 8 is the only unit subject to the Acid Rain Program, the Fremont was only required to report Boiler 8 SO₂ emissions in CAMD – thus, the difference between the emissions reported in the NEI and CAMD.

DRR applicability is based on the facility-wide SO₂ emissions. 40 CFR 51.1202 states that "(t)his subpart applies to any air agency in whose jurisdiction is located one or more applicable sources of SO₂ emissions that have annual actual SO₂ emissions of 2,000 tons or more...For the purposes of this subpart, the subject air agency shall identify applicable sources of SO₂ based on the most recently available annual SO₂ emissions data for such sources." Therefore, based on "the most recently available annual SO₂ emissions", the 2014 NEI, it appears that NDEQ should have included the Lon D Wright facility on its DRR list.

You mentioned in your email below that you expect to receive the 2015 emission submittal by March 31, 2016. Have you received this submittal yet? If so, are the facility-wide SO₂ emissions less than 2,000 tons? If haven't received the 2015 emission submittal, do you have any indication whether the 2015 SO₂ emissions are less than 2,000 tons?

It is my understanding that Fremont is in the process of installing or has installed a scrubber on Boiler 8, primarily for MATS compliance. This control system will have the benefit of controlling SO₂ emissions. However, it is also my understanding that the control system is either currently being installed or was installed in late 2015/early 2016, and the SO₂ emission reductions will likely not be reflected in the 2015 emission inventory.

This new control system can certainly be considered when conducting the air quality characterization required by the DRR. Sources have three options to comply with the DRR – conduct monitoring, conduct modeling or establish a federally enforceable limit of 2,000 tpy. Should the Lon D Wright facility ultimately be added to the DRR list, the permit issued to the facility may already limit the SO_2 emissions to less than 2,000 tpy, thus satisfying the requirements of the DRR. However, even if that is the case, it still appears, at this point, that the Lon D Wright facility should be added to NDEQ's DRR list.

After you have had a chance to consider the above, I can setup a conference call to discuss it further if you would like.

David Peter

Environmental Engineer

U.S. EPA Region 7, Air Permitting Branch

11201 Renner Boulevard

Lenexa, KS 66219

913-551-7397

From: Wiese, Carrie [mailto:carrie.wiese@nebraska.gov]

Sent: Wednesday, January 27, 2016 3:18 PM **To:** Peter, David <peter.david@epa.gov>

Cc: Schneider, Shelley <shelley.schneider@nebraska.gov>

Subject: RE: Lon D Wright Facility SO2 Emissions

Hi David,

In reviewing this information with Shelley Schneider, she indicated that she used the CAMD data because it is based on CEM data submitted quarterly. Additionally, there has been a scrubber installed at this facility which will decrease SO2.

If you'd like, we can let you know what the 2015 emissions report indicates when it is submitted. The deadline is March 31.

Thanks, Carrie

From: Peter, David [mailto:peter.david@epa.gov]
Sent: Wednesday, January 27, 2016 1:23 PM

To: Wiese, Carrie

Subject: Lon D Wright Facility SO2 Emissions

Carrie,

As we discussed on the phone today, I am trying to confirm the actual SO2 emissions from the Lon D Wright Facility in Fremont, NE. EPA's Emission Inventory System lists the CY 2014 SO2 emissions as 2,232 tons. I believe that this value comes from what the facility submitted to NDEQ as part of their annual emission inventory. I did look at the CAMD data and it appears to indicate that the facility emitted 1,595 tons for CY 2014. Further, it appears that the SO2 emissions reported to CAMD has never exceeded 2,000 tons in a CY since at least 1997.

Could you or one of your staff members please confirm the actual CY 2014 (or CY 2015) SO2 emissions from the Lon D Wright Facility? As we discussed, this is not pressing and a response in the next few weeks would be fine.

Just as an FYI, I am not suggesting that this facility should be on the DRR list.

David Peter

Environmental Engineer

U.S. EPA Region 7, Air Permitting Branch

11201 Renner Boulevard

Lenexa, KS 66219

913-551-7397

To: Wilbur, Emily[emily.wilbur@dnr.mo.gov]; Abdul, Assem[assem.abdul@dnr.mo.gov]

Cc: patricia.maliro@dnr.mo.gov[patricia.maliro@dnr.mo.gov];

stephen.hall@dnr.mo.gov[stephen.hall@dnr.mo.gov]; Avey, Lance[Avey.Lance@epa.gov]; Peter, Lance@epa.gov]; Peter, Lance@

David[peter.david@epa.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]; Grooms,

Leland[Grooms.Leland@epa.gov]

From: Hawkins, Andy

Sent: Thur 3/3/2016 3:45:22 PM **Subject:** FW: monitoring siting

BRRF-SO2 Monitor Siting-Prelim Locations-Feb022016-2.pdf

Emily/Assem,

Does the attached preliminary map modeling summary reflect the results of MDNR's technical analysis? Do you know if this modeling reflects the onsite met data at BRRF? Was a frequency analysis of daily maximums also performed? The statement below "we imagine placing two monitors", does that mean two monitors in addition to the current monitor location?

Any information you can provide on this attached modeling map or your modeling would be much appreciated as it appears preliminary sites are being selected and this is the first Lance or I have seen an analysis supporting monitor locations. Last I knew, via phone discussions with Assem, he had identified via modeling using TAD guidance some predicted locations higher than the current monitoring location, but I've not seen any of the MDNR modeling or results. Lance and I will need to understand the basis of these model results and it would be good to have that information to inform Lee's visit, if possible.

TIA, Andy

Andy Hawkins

EPA Region 7

11201 Renner Boulevard

Lenexa, Kansas 66219

(913) 551-7179 office

hawkins.andy@epa.gov

From: Peter, David

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To: Algoe-Eakin, Amy < Algoe-Eakin. Amy @epa.gov>

Cc: Hawkins, Andy hawkins.andy@epa.gov">hawkins.andy@epa.gov; Avey, Lance Avey.Lance@epa.gov; Meyer,

Jonathan <Meyer.Jonathan@epa.gov>

Subject: FW: monitoring siting

FYI...

From: Maliro, Patricia [mailto:patricia.maliro@dnr.mo.gov]

Sent: Wednesday, March 02, 2016 1:27 PM

To: Grooms, Leland < Grooms. Leland@epa.gov >

Cc: Peter, David < peter.david@epa.gov >; Hall, Stephen < stephen.hall@dnr.mo.gov >; Giroir,

Eric < eric.giroir@dnr.mo.gov>
Subject: FW: monitoring siting

Lee,

Eric Giroir in monitoring unit has arranged with Doe Run Buick to review potential SO2 monitoring sites near BRRF on Monday, March 7, 2016. Please let us know if your schedule will allow you join Eric on this trip; we can forward you additional contact information regarding the trip. A preliminary map from Doe Run Buick showing possible locations for monitoring is attached.

Thank you and let me know if you have any questions.

Patricia Maliro

Air Monitoring Unit Chief

Air Pollution Control Program

Missouri Department of Natural Resources 1659 East Elm St. Jefferson City, MO 65102 (573) 751-0750 patricia.maliro@dnr.mo.gov Promoting, Protecting and Enjoying our Natural Resources. Learn more at dnr.mo.gov. From: Crocker, Margaret [mailto:mcrocker@doerun.com] Sent: Tuesday, February 02, 2016 5:04 PM To: Wilbur, Emily Cc: joseph@shellengr.com; Hall, Stephen; Bybee, Darcy; Abdul, Assem; Maliro, Patricia; Bodnar, Gen Subject: RE: monitoring siting Hi all. I have attached a preliminary map showing the top 100 receptors (Average 4th highest modeled concentrations) in red. They are concentrated directly west of the plant entrance and east of the facility along the ambient boundary. At this point we imagine placing two monitors. One monitor directly across from the facility's entrance from Hwy KK on Doe Run Property and another monitor near the eastern ambient border, in the southern 1/3 of the red receptors, which is also Doe Run property. If you have questions about this map or the proposed locations please let me know. I will coordinate a visit with the monitoring unit and we will look at the specific locations then. Thanks, Maggie Crocker EHS Analyst

The Doe Run Company

573-626-3499

To: Wiese, Carrie[carrie.wiese@nebraska.gov]

Cc: Schneider, Shelley[shelley.schneider@nebraska.gov]; Algoe-Eakin, Amy[Algoe-

Eakin.Amy@epa.gov]; Jay, Michael[Jay.Michael@epa.gov]

From: Peter, David

Sent: Tue 3/1/2016 5:23:32 PM

Subject: RE: Lon D Wright Facility SO2 Emissions

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David Peter

Environmental Engineer

U.S. EPA Region 7, Air Permitting Branch

11201 Renner Boulevard

Lenexa, KS 66219

913-551-7397

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Sent: Wednesday, January 27, 2016 3:18 PM To: Peter, David peter.david@epa.gov>

Cc: Schneider, Shelley <shelley.schneider@nebraska.gov>

Subject: RE: Lon D Wright Facility SO2 Emissions

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To: Wiese, Carrie

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Just as an FYI, I am not suggesting that this facility should be on the DRR list.

David Peter

Environmental Engineer

U.S. EPA Region 7, Air Permitting Branch

11201 Renner Boulevard

Lenexa, KS 66219

913-551-7397

To: Peter, David[peter.david@epa.gov]

Cc: Kemp, Lachala[Kemp.Lachala@epa.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov];

Hawkins, Andy[hawkins.andy@epa.gov]; Avey, Lance[Avey.Lance@epa.gov]; Meyer,

Jonathan[Meyer.Jonathan@epa.gov]

From: Wilbur, Emily

Sent: Fri 10/16/2015 1:56:27 PM **Subject:** RE: follow-up to call on SO2

Thanks, David!

From: Peter, David [mailto:peter.david@epa.gov]

Sent: Friday, October 16, 2015 8:01 AM

To: Wilbur, Emily

Cc: Kemp, Lachala; Algoe-Eakin, Amy; Hawkins, Andy; Avey, Lance; Meyer, Jonathan

Subject: FW: follow-up to call on SO2

Emily,

I am following up on a couple of questions that you had previously asked.

(1) Question #1 below – Is the 2,000 tpy limit to avoid modeling or monitoring in accordance with the DRR on a calendar year basis or 12-month basis?

I checked with HQ on this one. The response that I got back was that, consistent with longstanding EPA practice, such a limit may not simply be an annual cap on emissions. The averaging time for any such limitation for a source should be short and should generally not exceed a 30-day limit. In some cases, a state may be able to justify use of an annual emission limit, so long as the limit is a rolling average limit, rolled a minimum of every 30 days, and so long as the state can demonstrate the practical enforceability of the limit. The limitation must also be accompanied by monitoring, reporting and recordkeeping (MRR) requirements that enable an agency to verify the source's compliance with its limits. (See "Guidance on Limiting Potential to Emit in New Source Permitting" issued by Terrell E. Hunt, Associate Enforcement Counsel, Air Enforcement Division, Office of Enforcement and John S. Seitz, Stationary Source Compliance Division, Office of Air Quality Planning and Standards, June 13, 1989.)

So in other words, the limit can't be a calendar year limit.

(2) You also asked last week about the timing of federally enforceable limits if a source elects to model to comply with the DRR.

I was initially thinking that the limits would need to be enforceable by the final designation date (12/31/2017) but the DRR itself seems fairly clear that the date is 1/13/2017. From 40 CFR 52.1203(d)(2) – "Modeling analyses shall characterize air quality based on either actual SO2 emissions from the most recent 3 years, or on any federally enforceable allowable emission limit or limits established by the air agency or the EPA and that are effective and require compliance by January 13, 2017."

David Peter

Environmental Engineer

U.S. EPA Region 7, Air Permitting Branch

11201 Renner Boulevard

Lenexa, KS 66219

913-551-7397

From: Peter, David

Sent: Thursday, September 24, 2015 10:30 AM **To:** 'Wilbur, Emily' <emily.wilbur@dnr.mo.gov>

Cc: Kemp, Lachala < Kemp. Lachala@epa.gov >; Hawkins, Andy < hawkins.andy@epa.gov >; Avey, Lance < Avey. Lance@epa.gov >; Algoe-Eakin, Amy < Algoe-Eakin. Amy@epa.gov >;

Meyer, Jonathan < meyer.jonathan@epa.gov >

Subject: RE: follow-up to call on SO2

Emily – Below are my responses to your second set of questions and your additional question on the timing of the 2,000 tpy federally enforceable limits for Round 3 sources. If you have any questions on the responses, let me know. David

1. If a source takes a 2000 tpy limit, is that a calendar year limit or a 12-month rolling average limit?

In the permitting world, a tpy limit has to be rolled at least monthly to be federally enforceable but I think this may work differently. 40 CFR 51.1203(e)(1) states the emission limits must "Require the applicable sources in the area to emit less than 2,000 tons of SO2 per year <u>for calendar year 2017 and thereafter</u>". This language appears to indicate that the limit is based on a calendar year. I will submit this question to HQ for confirmation but it sure looks like a calendar limit would work for this purpose.

2. We're looking for confirmation that if a source takes a lb/hr limit that demonstrates compliance through modeling then that source will no longer be subject to ongoing verification requirements.

40 CFR 51.1205(c) states that "any air agency that demonstrates that an area would meet the 2010 SO2 NAAQS with *allowable* emissions is not required pursuant to (40 CFR 51.1205(b)) to submit future annual reports". Assuming the limit is federally enforceable, the modeled emissions would be the "allowable" emissions and the area would not be subject to ongoing data requirements. In addition, an excerpt from 40 CFR 51.1204 states that "(t)he area agency shall not be subject to the ongoing data requirements of (40 CFR 51.1205) for such area if the air quality modeling and other analyses demonstrate that the area will not violate the 2010 SO2 NAAOS".

3. Sources on the list of sources affected by the DRR as of Jan. 15, 2016 are the only sources that are affected by the ongoing verification requirements.

Areas that use monitoring (40 CFR 51.1203(c)) and modeling (40 CFR 51.1203(d)) are potentially subject to the ongoing data requirements. Areas that establish federally enforceable emission limits in accordance with 40 CFR 51.1203(e) are not subject to ongoing data requirements. Areas not on the January 15, 2016 list are not subject to the ongoing verification

requirements unless they were inappropriately left off initially.

4. We were asked by a facility if the rule applied on a unit-by-unit basis or a facility-wide basis? Could you provide a rule citation that supports the answer to this question?

From 40 CFR 51.1200 – "Applicable source means a <u>stationary source</u> that is: (1) Not located in a designated nonattainment area, and (2) Has actual annual SO2 emissions data of 2,000 tons or more...". Further, 40 CFR 51.1200 states that "(a)ll terms not defined herein will have the meaning given them in (40 CFR 51.100) or in the Clean Air Act (CAA)". Section 111(a)(3) of the Clean Air Act states the "The term 'stationary source' means any building, structure, facility, or installation which emits or may emit any air pollutant." Therefore, the 2,000 tpy threshold would apply facility-wide.

5. I believe that you also questioned the rationale behind the requirement to have the federally enforceable limits in place by January 13, 2017 for Round 3 sources. Pages 100 – 103 of the Response to Comments document on the final DRR goes into significant discussion on this issue. I would recommend taking a look at those comments and EPA's response. I believe that the due date for the enforceable limits is tied to the timing of the requirement to install monitors (if applicable) and submit modeling (if applicable).

From: Wilbur, Emily [mailto:emily.wilbur@dnr.mo.gov]

Sent: Tuesday, September 08, 2015 11:10 AM

To: Kemp, Lachala **Cc:** Peter, David

Subject: follow-up to call on SO2

Hi Lachala,

Just wanted to follow-up with you on the questions I talked to Dave about this morning. Although there was a lot of discussion, the main question boils down to "what will EPA agree is a federally enforceable limit for the 2017 designations" (Will a limit in an operating permit or construction permit work)? This is probably our highest priority question right now since we have several facilities that are interested in a limit.

There are two situations related to this priority question that we are looking at for facilities affected by the DRR.

- 1. A source wants to take a 2000 tpy limit
- 2. A source wants to take a lb/hr (or equivalent) limit that demonstrates through modeling that the area will be in compliance with the standard.

Related questions (some are not really questions) that we would also like answers to, but are not as immediate in nature (listed in the order of importance to us):

- 1. If a source takes a 2000 tpy limit, is that a calendar year limit or a 12-month rolling average limit?
- 2. We're looking for confirmation that if a source takes a lb/hr limit that demonstrates compliance through modeling then that source will no longer be subject to ongoing verification requirements.
- 3. Sources on the list of sources affected by the DRR as of Jan. 15, 2016 are the only sources that are affected by the ongoing verification requirements.
- 4. We were asked by a facility if the rule applied on a unit-by-unit basis or a facility-wide basis? Could you provide a rule citation that supports the answer to this question?

If you need clarification on any of these questions, please let me know.

Thanks,

Emily Wilbur

State Implementation Plan Unit Chief

Air Pollution Control Program

(573) 751-4817 general

(573) 751-7725 direct line

(573) 751-2706 FAX

Promoting, Protecting and Enjoying our Natural Resources. Learn more at dnr.mo.gov.

To: Wilbur, Emily[emily.wilbur@dnr.mo.gov]

Cc: Kemp, Lachala[Kemp.Lachala@epa.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov];

Hawkins, Andy[hawkins.andy@epa.gov]; Avey, Lance[Avey.Lance@epa.gov]; Meyer,

Jonathan[Meyer.Jonathan@epa.gov]

From: Peter, David

Sent: Fri 10/16/2015 1:01:13 PM **Subject:** FW: follow-up to call on SO2

Emily,

I am following up on a couple of questions that you had previously asked.

(1) Question #1 below – Is the 2,000 tpy limit to avoid modeling or monitoring in accordance with the DRR on a calendar year basis or 12-month basis?

I checked with HQ on this one. The response that I got back was that, consistent with longstanding EPA practice, such a limit may not simply be an annual cap on emissions. The averaging time for any such limitation for a source should be short and should generally not exceed a 30-day limit. In some cases, a state may be able to justify use of an annual emission limit, so long as the limit is a rolling average limit, rolled a minimum of every 30 days, and so long as the state can demonstrate the practical enforceability of the limit. The limitation must also be accompanied by monitoring, reporting and recordkeeping (MRR) requirements that enable an agency to verify the source's compliance with its limits. (See "Guidance on Limiting Potential to Emit in New Source Permitting" issued by Terrell E. Hunt, Associate Enforcement Counsel, Air Enforcement Division, Office of Enforcement and John S. Seitz, Stationary Source Compliance Division, Office of Air Quality Planning and Standards, June 13, 1989.)

So in other words, the limit can't be a calendar year limit.

(2) You also asked last week about the timing of federally enforceable limits if a source elects to model to comply with the DRR.

I was initially thinking that the limits would need to be enforceable by the final designation date (12/31/2017) but the DRR itself seems fairly clear that the date is 1/13/2017. From 40 CFR

52.1203(d)(2) – "Modeling analyses shall characterize air quality based on either actual SO2 emissions from the most recent 3 years, or on any federally enforceable allowable emission limit or limits <u>established by the air agency or the EPA and that are effective and require</u> <u>compliance by January 13, 2017.</u>"

David Peter

Environmental Engineer

U.S. EPA Region 7, Air Permitting Branch

11201 Renner Boulevard

Lenexa, KS 66219

913-551-7397

From: Peter, David

Sent: Thursday, September 24, 2015 10:30 AM **To:** 'Wilbur, Emily' <emily.wilbur@dnr.mo.gov>

Cc: Kemp, Lachala < Kemp.Lachala@epa.gov>; Hawkins, Andy < hawkins.andy@epa.gov>; Avey, Lance < Avey.Lance@epa.gov>; Algoe-Eakin, Amy < Algoe-Eakin.Amy@epa.gov>;

Meyer, Jonathan <meyer.jonathan@epa.gov>

Subject: RE: follow-up to call on SO2

Emily – Below are my responses to your second set of questions and your additional question on the timing of the 2,000 tpy federally enforceable limits for Round 3 sources. If you have any questions on the responses, let me know. David

1. If a source takes a 2000 tpy limit, is that a calendar year limit or a 12-month rolling average limit?

In the permitting world, a tpy limit has to be rolled at least monthly to be federally enforceable but I think this may work differently. 40 CFR 51.1203(e)(1) states the emission limits must "Require the applicable sources in the area to emit less than 2,000 tons of SO2 per year <u>for calendar year 2017 and thereafter</u>". This language appears to indicate that the limit is based on a calendar year. I will submit this question to HQ for confirmation but it sure looks like a calendar limit would work for this purpose.

2. We're looking for confirmation that if a source takes a lb/hr limit that demonstrates compliance through modeling then that source will no longer be subject to ongoing verification requirements.

40 CFR 51.1205(c) states that "any air agency that demonstrates that an area would meet the 2010 SO2 NAAQS with *allowable* emissions is not required pursuant to (40 CFR 51.1205(b)) to submit future annual reports". Assuming the limit is federally enforceable, the modeled emissions would be the "allowable" emissions and the area would not be subject to ongoing data requirements. In addition, an excerpt from 40 CFR 51.1204 states that "(t)he area agency shall not be subject to the ongoing data requirements of (40 CFR 51.1205) for such area if the air quality modeling and other analyses demonstrate that the area will not violate the 2010 SO2 NAAQS".

3. Sources on the list of sources affected by the DRR as of Jan. 15, 2016 are the only sources that are affected by the ongoing verification requirements.

Areas that use monitoring (40 CFR 51.1203(c)) and modeling (40 CFR 51.1203(d)) are potentially subject to the ongoing data requirements. Areas that establish federally enforceable emission limits in accordance with 40 CFR 51.1203(e) are not subject to ongoing data requirements. Areas not on the January 15, 2016 list are not subject to the ongoing verification requirements unless they were inappropriately left off initially.

4. We were asked by a facility if the rule applied on a unit-by-unit basis or a facility-wide basis? Could you provide a rule citation that supports the answer to this question?

From 40 CFR 51.1200 – "Applicable source means a <u>stationary source</u> that is: (1) Not located in a designated nonattainment area, and (2) Has actual annual SO2 emissions data of 2,000 tons or

more...". Further, 40 CFR 51.1200 states that "(a)ll terms not defined herein will have the meaning given them in (40 CFR 51.100) or in the Clean Air Act (CAA)". Section 111(a)(3) of the Clean Air Act states the "The term 'stationary source' means any building, structure, facility, or installation which emits or may emit any air pollutant." Therefore, the 2,000 tpy threshold would apply facility-wide.

5. I believe that you also questioned the rationale behind the requirement to have the federally enforceable limits in place by January 13, 2017 for Round 3 sources. Pages 100 - 103 of the Response to Comments document on the final DRR goes into significant discussion on this issue. I would recommend taking a look at those comments and EPA's response. I believe that the due date for the enforceable limits is tied to the timing of the requirement to install monitors (if applicable) and submit modeling (if applicable).

From: Wilbur, Emily [mailto:emily.wilbur@dnr.mo.gov]

Sent: Tuesday, September 08, 2015 11:10 AM

To: Kemp, Lachala Cc: Peter, David

Subject: follow-up to call on SO2

Hi Lachala,

Just wanted to follow-up with you on the questions I talked to Dave about this morning. Although there was a lot of discussion, the main question boils down to "what will EPA agree is a federally enforceable limit for the 2017 designations" (Will a limit in an operating permit or construction permit work)? This is probably our highest priority question right now since we have several facilities that are interested in a limit.

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If you need clarification on any of these questions, please let me know.

Thanks,

Emily Wilbur

State Implementation Plan Unit Chief

Air Pollution Control Program

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To: Peter, David[peter.david@epa.gov]

Cc: Kemp, Lachala[Kemp.Lachala@epa.gov]; Hawkins, Andy[hawkins.andy@epa.gov]; Avey,

Lance[Avey.Lance@epa.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]; Meyer,

Jonathan[Meyer.Jonathan@epa.gov]

From: Wilbur, Emily

Sent: Fri 9/25/2015 2:44:03 PM **Subject:** RE: follow-up to call on SO2

Thanks, David, for the follow-up. This is very helpful. We will convey the information to our affected sources.

Thanks,

Emily

From: Peter, David [mailto:peter.david@epa.gov] Sent: Thursday, September 24, 2015 10:30 AM

To: Wilbur, Emily

Cc: Kemp, Lachala; Hawkins, Andy; Avey, Lance; Algoe-Eakin, Amy; Meyer, Jonathan

Subject: RE: follow-up to call on SO2

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From: Wilbur, Emily [mailto:emily.wilbur@dnr.mo.gov]

Sent: Tuesday, September 08, 2015 11:10 AM

To: Kemp, Lachala Cc: Peter, David

Subject: follow-up to call on SO2

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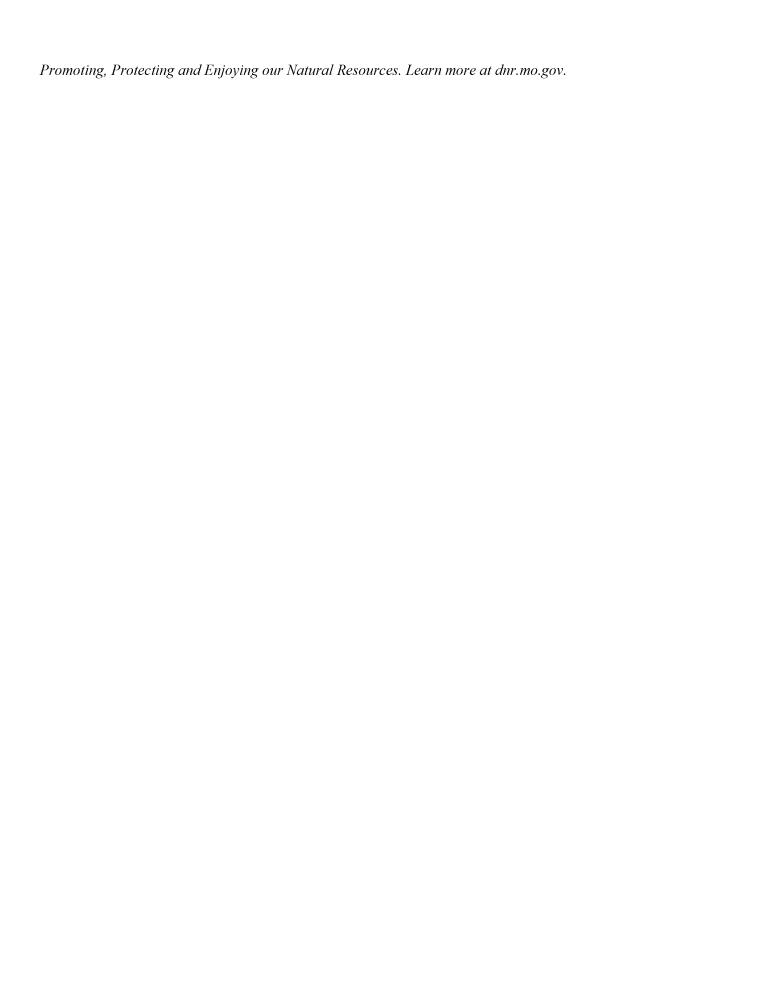
State Implementation Plan Unit Chief

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To: Wilbur, Emily[emily.wilbur@dnr.mo.gov]

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Lance[Avey.Lance@epa.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]; Meyer,

Jonathan[Meyer.Jonathan@epa.gov]

From: Peter, David

Sent: Thur 9/24/2015 3:30:11 PM Subject: RE: follow-up to call on SO2

Emily – Below are my responses to your second set of questions and your additional question on the timing of the 2,000 tpy federally enforceable limits for Round 3 sources. If you have any questions on the responses, let me know. David

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Sent: Tuesday, September 08, 2015 11:10 AM

To: Kemp, Lachala **Cc:** Peter, David

Subject: follow-up to call on SO2

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From: Wilbur, Emily

Sent: Mon 9/14/2015 1:51:28 PM Subject: RE: follow-up to call on SO2

Thanks for the clarification! We are getting quite a few inquiries about the process we will be taking to set the necessary limits so this is very timely. We appreciate the response.

Thanks,

Emily

From: Peter, David [mailto:peter.david@epa.gov]
Sent: Monday, September 14, 2015 7:59 AM

To: Wilbur, Emily

Cc: Kemp, Lachala; Algoe-Eakin, Amy; Hawkins, Andy; Avey, Lance; Meyer, Jonathan; Bhesania, Amy

Subject: RE: follow-up to call on SO2

Emily,

Below is my response to your questions #1 and #2. I will send a follow-up email soon that address the second set of questions that you asked.

For December 31, 2017 1-hour SO2 designation purposes ("Round 3" designations), limits that establish SO2 emissions below the 2,000 tpy threshold and emission rates that are assumed in a state's modeling analysis to support a state's designation recommendation need to be federally enforceable. Both construction permits and operating permits can establish federally enforceable limits since both of these programs have been incorporated into MDNR's EPA-approved SIP. Should MDNR elect to use these permitting programs to establish these limits, the permit would need to be very specific about the purpose of the limit and that the limit (generally) applies for the life of the unit. Any exceedance of the 2,000 tpy limit or the removal of the limit altogether could result in the requirement to conduct an SO2 air quality characterization for that source/area among other possibilities.

The Response to Comments document on the final DRR does address this issue as it relates the 2,000 tpy threshold for Round 3 sources. I have included the full comment and response at the end of my email but here is an excerpt of EPA's response:

"Some commenters appear to have interpreted the slides on the proposed rule used for the May 2014 webinar as requiring that all federally enforceable requirements limiting emissions of sources to below 2,000 tpy are to be adopted into the SIP. The EPA wishes to clarify that this is not the case. In some states, federally enforceable emission limits can be established through mechanisms other than through adoption of a SIP revision. For example, some states are able to establish federally enforceable emissions limits through their minor NSR program."

With that being said, the Title V permit may not be the most appropriate mechanism to establish these limits for various reasons. First, as I stated earlier, the limit must be federally enforceable. The Title V permit can include "State Only" requirements. MDNR would need to ensure that the requirement is not specified as "State Only" or otherwise qualifies as a "State Only" requirement. Second, requirements in a Title V permit are almost always based an underlying requirement. Should MDNR establish these limits solely in a Title V permit, there would be no underlying requirement for these limits. Again, for this reason, the Title V permit would need to be clear on the purpose of these limits and that these limits essentially do not expire or terminate (in other words, the limits would need to be included in subsequent renewals). Third, Title V permit can expire if a facility fails to submit a timely and complete application and the renewal permit is not issued prior to the expiration of the existing permit (i.e., facility does not qualify for an application shield). Should that occur, one could argue that, since there is no underlying requirement, the emission limit would no longer be applicable. This could have implications for MDNR and the source such as the requirement to conduct an SO2 air quality characterization for that source/area.

In accordance with 40 CFR 51.1203, if a state utilizes federally enforceable limits to avoid an air quality characterization for a source/area, the state is required to submit documentation to EPA showing that such requirements are federally enforceable. I would assume that the issues listed above will be considered during this review.

I would note that it appears that there is a difference on this issue as it relates to limits included in a state's 1-hour SO2 nonattainment area SIP submissions (in other words, the submission that is required once an area is designated as nonattainment). This is based on the April 23, 2014

"Guidance for 1-Hour SO2 Nonattainment Area SIP Submissions" and discussions that I have had with SIP staff on the historical practice for these submissions. In this case, it is my understanding that any emission limit that is needed to demonstrate the area will achieve attainment is included in the SIP.

David Peter

Environmental Engineer

U.S. EPA Region 7, Air Permitting Branch

11201 Renner Boulevard

Lenexa, KS 66219

913-551-7397

From the final DRR Response to Comments document:

Commenters (0052, 0078, 0081, 0089, 0097, and 0106) objected to a requirement that states must submit federally enforceable limits into the SIP. Commenters (0078, 0081, 0089, 0106) referred to a webinar presented by the EPA on May 13, 2014, in which they assert the EPA specified that these permits would not only need to undergo Title V approval, but would also need to be submitted for approval in the state's SIP (slide 12). Commenters (0081, 0089, 0097) stated this is overly burdensome, unnecessary, and for no real environmental gain.

Commenters (0078, 0081, 0097, and 0106) stated that federally enforceable limits, such as Title V operating permits, are all that are needed to ensure facility compliance. Commenter (0078) stated that facilities in a state operating under already-existing Title V permitted limits that may show modeled attainment are not required to be included in the SIP, so making a unique requirement on facilities with "newer" enforceable limits is problematic, since in both cases, the facilities would be able to demonstrate modeled compliance under the restrictions of their permitted limits. Commenter (0106) asserted that states have for many years established federally enforceable limits to assure compliance with the NAAQS in PSD permits, minor

source preconstruction permits, Title V Permits, and federally enforceable state operating permits which are not directly in the SIP. Commenter (0106) stated that inclusion of limits in the SIP is a waste of resources and creates an unnecessary and lengthy process if changes to the limits are required.

Commenter (0078) stated that subjecting facilities making early emissions reductions (in order to avoid nonattainment area planning requirements) to permit conditions that require SIP revisions and approval for future amendments would essentially penalize these facilities and remove the incentive for early action. Commenter (0078) stated that the EPA should not require any pre-attainment-designation permitted limits to be incorporated in the SIP, unless a state's existing permitting program is not otherwise "federally enforceable."

Commenter (0089) stated that, if the EPA is going to require such a departure, it needs to do so in a formal rulemaking procedure in which states are provided with notice and the opportunity to comment on it; such an implementation shift should not be merely a statement in a webinar, on which states have no formal opportunity to comment. Commenter (0089) provided the following additional points.

To require that emission limits be included in the SIP, not just in a facility's permit, would be a several month process, at least. Once submitted to the EPA, EPA has 18 months to act on the submittal--and often does not act in a timely manner. Even more importantly, to change the limits once they are approved into the SIP would take the same lengthy process (consuming state and EPA resources once again). After the permit is revised, there would be a gap between the state permit requirements and the SIP requirements until the EPA acts on the revision. The gap could easily last two years at a minimum. The Permittee would legally have to continue to comply with the SIP until the EPA acts on the revision submittal or take a risk by just complying with the revised air quality operating permit. The result is a situation where the emission limits in the current approved SIP are continually out-of-date with the agency-requested emission limits in a revised SIP, which may very well result in a situation under which enforceable emission limits may be less protective of human health and the environment.

Placing emission limits into the SIP also results in a certain loss of transparency in terms of public review and comment on emission limits. When wrapped up in a SIP approval process, individual facility emission limits are obscured by all the other details in the SIP. When placed in an enforceable facility emissions operating permit, however, the public can more easily identify, evaluate, and comment on specific emission limits through the public comment process required as part of Title V permitting actions. This allows the public to focus its

attention on the emission limit being imposed on that particular facility and the emission reduction control technologies and operational restrictions required to meet that limit. The review and comment on appropriate emission limits should remain associated with the issuance of an individual facility emissions operating permit.

Additionally, the EPA has not identified a need for the departure from permit emission limits to SIP emission limits. The EPA has the opportunity to review and comment on Title V permits before they are issued, and the permit limits are federally enforceable. Since those emission limits are already federally enforceable, what need is there to include those emission limits in the SIP itself? (0089)

Response:

The final rule allows the air agency to meet the requirements of this rule by submitting a federally enforceable emissions limitation (e.g., source-specific SIP revision or minor NSR permit revision) to the EPA prior to January 13, 2017 that requires the affected source to reduce allowable emissions at the source to an annual rate below the 2,000 tpy threshold level prior to January 13, 2017. By July 1, 2016, the air agency would be required to identify the sources on the list for which it would be using such an approach as an alternative to modeling or monitoring. For such a source identified on the list, if the affected air agency has adopted and the source has become subject to effective federally enforceable control measures lowering emissions below 2,000 tpy by January 13, 2017, the air agency will generally not be required to further characterize the impacts from the source's emissions solely due to its size as of January 15, 2016. Note that this provision of the final rule was established after consideration of several comments suggesting this type of change from the proposal.

Some commenters appear to have interpreted the slides on the proposed rule used for the May 2014 webinar as requiring that all federally enforceable requirements limiting emissions of sources to below 2,000 tpy are to be adopted into the SIP. The EPA wishes to clarify that this is not the case. In some states, federally enforceable emission limits can be established through mechanisms other than through adoption of a SIP revision. For example, some states are able to establish federally enforceable emissions limits through their minor NSR program.

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- 3. Sources on the list of sources affected by the DRR as of Jan. 15, 2016 are the only sources that are affected by the ongoing verification requirements.
- 4. We were asked by a facility if the rule applied on a unit-by-unit basis or a facility-wide basis? Could you provide a rule citation that supports the answer to this question?

If you need clarification on any of these questions, please let me know.
Thanks,
E '1 W'11
Emily Wilbur
State Implementation Plan Unit Chief
Air Pollution Control Program
(573) 751-4817 general
(573) 751-7725 direct line
(573) 751-2706 FAX
Promoting, Protecting and Enjoying our Natural Resources. Learn more at dnr.mo.gov.

To: Wilbur, Emily[emily.wilbur@dnr.mo.gov]

Cc: Kemp, Lachala[Kemp.Lachala@epa.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov];

Hawkins, Andy[hawkins.andy@epa.gov]; Avey, Lance[Avey.Lance@epa.gov]; Meyer, Jonathan[Meyer.Jonathan@epa.gov]; Bhesania, Amy[Bhesania.Amy@epa.gov]

From: Peter, David

Sent: Mon 9/14/2015 12:58:49 PM Subject: RE: follow-up to call on SO2

Emily,

Below is my response to your questions #1 and #2. I will send a follow-up email soon that address the second set of questions that you asked.

For December 31, 2017 1-hour SO2 designation purposes ("Round 3" designations), limits that establish SO2 emissions below the 2,000 tpy threshold and emission rates that are assumed in a state's modeling analysis to support a state's designation recommendation need to be federally enforceable. Both construction permits and operating permits can establish federally enforceable limits since both of these programs have been incorporated into MDNR's EPA-approved SIP. Should MDNR elect to use these permitting programs to establish these limits, the permit would need to be very specific about the purpose of the limit and that the limit (generally) applies for the life of the unit. Any exceedance of the 2,000 tpy limit or the removal of the limit altogether could result in the requirement to conduct an SO2 air quality characterization for that source/area among other possibilities.

The Response to Comments document on the final DRR does address this issue as it relates the 2,000 tpy threshold for Round 3 sources. I have included the full comment and response at the end of my email but here is an excerpt of EPA's response:

"Some commenters appear to have interpreted the slides on the proposed rule used for the May 2014 webinar as requiring that all federally enforceable requirements limiting emissions of sources to below 2,000 tpy are to be adopted into the SIP. The EPA wishes to clarify that this is not the case. In some states, federally enforceable emission limits can be established through mechanisms other than through adoption of a SIP revision. For example, some states are able to establish federally enforceable emissions limits through their minor NSR program."

With that being said, the Title V permit may not be the most appropriate mechanism to establish these limits for various reasons. First, as I stated earlier, the limit must be federally enforceable. The Title V permit can include "State Only" requirements. MDNR would need to ensure that the requirement is not specified as "State Only" or otherwise qualifies as a "State Only" requirement. Second, requirements in a Title V permit are almost always based an underlying requirement. Should MDNR establish these limits solely in a Title V permit, there would be no underlying requirement for these limits. Again, for this reason, the Title V permit would need to be clear on the purpose of these limits and that these limits essentially do not expire or terminate (in other words, the limits would need to be included in subsequent renewals). Third, Title V permit can expire if a facility fails to submit a timely and complete application and the renewal permit is not issued prior to the expiration of the existing permit (i.e., facility does not qualify for an application shield). Should that occur, one could argue that, since there is no underlying requirement, the emission limit would no longer be applicable. This could have implications for MDNR and the source such as the requirement to conduct an SO2 air quality characterization for that source/area

In accordance with 40 CFR 51.1203, if a state utilizes federally enforceable limits to avoid an air quality characterization for a source/area, the state is required to submit documentation to EPA showing that such requirements are federally enforceable. I would assume that the issues listed above will be considered during this review.

I would note that it appears that there is a difference on this issue as it relates to limits included in a state's 1-hour SO2 nonattainment area SIP submissions (in other words, the submission that is required once an area is designated as nonattainment). This is based on the April 23, 2014 "Guidance for 1-Hour SO2 Nonattainment Area SIP Submissions" and discussions that I have had with SIP staff on the historical practice for these submissions. In this case, it is my understanding that any emission limit that is needed to demonstrate the area will achieve attainment is included in the SIP.

David Peter

Environmental Engineer

U.S. EPA Region 7, Air Permitting Branch

11201 Renner Boulevard

Lenexa, KS 66219

913-551-7397

From the final DRR Response to Comments document:

Commenters (0052, 0078, 0081, 0089, 0097, and 0106) objected to a requirement that states must submit federally enforceable limits into the SIP. Commenters (0078, 0081, 0089, 0106) referred to a webinar presented by the EPA on May 13, 2014, in which they assert the EPA specified that these permits would not only need to undergo Title V approval, but would also need to be submitted for approval in the state's SIP (slide 12). Commenters (0081, 0089, 0097) stated this is overly burdensome, unnecessary, and for no real environmental gain.

Commenters (0078, 0081, 0097, and 0106) stated that federally enforceable limits, such as Title V operating permits, are all that are needed to ensure facility compliance. Commenter (0078) stated that facilities in a state operating under already-existing Title V permitted limits that may show modeled attainment are not required to be included in the SIP, so making a unique requirement on facilities with "newer" enforceable limits is problematic, since in both cases, the facilities would be able to demonstrate modeled compliance under the restrictions of their permitted limits. Commenter (0106) asserted that states have for many years established federally enforceable limits to assure compliance with the NAAQS in PSD permits, minor source preconstruction permits, Title V Permits, and federally enforceable state operating permits which are not directly in the SIP. Commenter (0106) stated that inclusion of limits in the SIP is a waste of resources and creates an unnecessary and lengthy process if changes to the limits are required.

Commenter (0078) stated that subjecting facilities making early emissions reductions (in order to avoid nonattainment area planning requirements) to permit conditions that require SIP revisions and approval for future amendments would essentially penalize these facilities and remove the incentive for early action. Commenter (0078) stated that the EPA should not require any pre-attainment-designation permitted limits to be incorporated in the SIP, unless a state's existing permitting program is not otherwise "federally enforceable."

Commenter (0089) stated that, if the EPA is going to require such a departure, it needs to do so in a formal rulemaking procedure in which states are provided with notice and the

opportunity to comment on it; such an implementation shift should not be merely a statement in a webinar, on which states have no formal opportunity to comment. Commenter (0089) provided the following additional points.

To require that emission limits be included in the SIP, not just in a facility's permit, would be a several month process, at least. Once submitted to the EPA, EPA has 18 months to act on the submittal—and often does not act in a timely manner. Even more importantly, to change the limits once they are approved into the SIP would take the same lengthy process (consuming state and EPA resources once again). After the permit is revised, there would be a gap between the state permit requirements and the SIP requirements until the EPA acts on the revision. The gap could easily last two years at a minimum. The Permittee would legally have to continue to comply with the SIP until the EPA acts on the revision submittal or take a risk by just complying with the revised air quality operating permit. The result is a situation where the emission limits in the current approved SIP are continually out-of-date with the agency-requested emission limits in a revised SIP, which may very well result in a situation under which enforceable emission limits may be less protective of human health and the environment.

Placing emission limits into the SIP also results in a certain loss of transparency in terms of public review and comment on emission limits. When wrapped up in a SIP approval process, individual facility emission limits are obscured by all the other details in the SIP. When placed in an enforceable facility emissions operating permit, however, the public can more easily identify, evaluate, and comment on specific emission limits through the public comment process required as part of Title V permitting actions. This allows the public to focus its attention on the emission limit being imposed on that particular facility and the emission reduction control technologies and operational restrictions required to meet that limit. The review and comment on appropriate emission limits should remain associated with the issuance of an individual facility emissions operating permit.

Additionally, the EPA has not identified a need for the departure from permit emission limits to SIP emission limits. The EPA has the opportunity to review and comment on Title V permits before they are issued, and the permit limits are federally enforceable. Since those emission limits are already federally enforceable, what need is there to include those emission limits in the SIP itself? (0089)

Response:

The final rule allows the air agency to meet the requirements of this rule by submitting a federally enforceable emissions limitation (e.g., source-specific SIP revision or minor NSR permit revision) to the EPA prior to January 13, 2017 that requires the affected source to reduce allowable emissions at the source to an annual rate below the 2,000 tpy threshold level prior to January 13, 2017. By July 1, 2016, the air agency would be required to identify the sources on the list for which it would be using such an approach as an alternative to modeling or monitoring. For such a source identified on the list, if the affected air agency has adopted and the source has become subject to effective federally enforceable control measures lowering emissions below 2,000 tpy by January 13, 2017, the air agency will generally not be required to further characterize the impacts from the source's emissions solely due to its size as of January 15, 2016. Note that this provision of the final rule was established after consideration of several comments suggesting this type of change from the proposal.

Some commenters appear to have interpreted the slides on the proposed rule used for the May 2014 webinar as requiring that all federally enforceable requirements limiting emissions of sources to below 2,000 tpy are to be adopted into the SIP. The EPA wishes to clarify that this is not the case. In some states, federally enforceable emission limits can be established through mechanisms other than through adoption of a SIP revision. For example, some states are able to establish federally enforceable emissions limits through their minor NSR program.

From: Wilbur, Emily [mailto:emily.wilbur@dnr.mo.gov]

Sent: Tuesday, September 08, 2015 11:10 AM

To: Kemp, Lachala Cc: Peter, David

Subject: follow-up to call on SO2

Hi Lachala.

Just wanted to follow-up with you on the questions I talked to Dave about this morning. Although there was a lot of discussion, the main question boils down to "what will EPA agree is a federally enforceable limit for the 2017 designations" (Will a limit in an operating permit or construction permit work)? This is probably our highest priority question right now since we have several facilities that are interested in a limit.

There are two situations related to this priority question that we are looking at for facilities affected by the DRR.

- 1. A source wants to take a 2000 tpy limit
- 2. A source wants to take a lb/hr (or equivalent) limit that demonstrates through modeling that the area will be in compliance with the standard.

Related questions (some are not really questions) that we would also like answers to, but are not as immediate in nature (listed in the order of importance to us):

- 1. If a source takes a 2000 tpy limit, is that a calendar year limit or a 12-month rolling average limit?
- 2. We're looking for confirmation that if a source takes a lb/hr limit that demonstrates compliance through modeling then that source will no longer be subject to ongoing verification requirements.
- 3. Sources on the list of sources affected by the DRR as of Jan. 15, 2016 are the only sources that are affected by the ongoing verification requirements.
- 4. We were asked by a facility if the rule applied on a unit-by-unit basis or a facility-wide basis? Could you provide a rule citation that supports the answer to this question?

If you need clarification on any of these questions, please let me know.

Thanks,

Emily Wilbur

State Implementation Plan Unit Chief

Air Pollution Control Program

(573) 751-4817 general

(573) 751-7725 direct line

(573) 751-2706 FAX

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To: Hawkins, Andy[hawkins.andy@epa.gov]

Cc: Peter, David[peter.david@epa.gov]; Avey, Lance[Avey.Lance@epa.gov]; Algoe-Eakin,

Amy[Algoe-Eakin.Amy@epa.gov]; Wilbur, Emily[emily.wilbur@dnr.mo.gov]

From: Vit, Wendy

Sent: Tue 8/25/2015 9:26:41 PM Subject: RE: SO2 data request

Hi Andy. It shouldn't be a problem to pull this information together for you. Right now we're focused on our public and commission process for the proposed SO2 boundary recommendation options, but we'll follow up with you in late September when we've gotten through this portion of the process. Thanks.

Wendy Vit
Air Quality Planning Section Chief
Air Pollution Control Program
Missouri Department of Natural Resources
(573) 526-3167
wendy.vit@dnr.mo.gov

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From: Hawkins, Andy [mailto:hawkins.andy@epa.gov]

Sent: Tuesday, August 25, 2015 2:17 PM

To: Wilbur, Emily

Cc: Vit, Wendy; Peter, David; Avey, Lance; Algoe-Eakin, Amy

Subject: SO2 data request

Emily/Wendy,

I have an additional data request concerning your SO2 proposed options for area boundary recommendations.

For the Iron County area, can you please provide me the hourly main stack CEM data and hourly (or finer) MET data that are required to be collected at Doe Run Buick per the MO permit # 062011-004, Permit # 012005-008, special condition 31, issued January 26, 2005, and 2013 Consent Judgment section V.9.C I would like to see CEM and MET data gathered from 2012-present, as available, in a .csv, .xls, or some electronic format that can be reasonably processed (i.e. not a .pdf file containing the data). In addition, any modeling or other technical analysis performed in the past that supports the current SO2 monitor placement represents a maximum concentration area around Buick would be helpful. It is also unclear to me if the main stack is the only source of SO2 at this facility. In the permit it states 60-70 % of S entering the furnace will be emitted and thus scrubbed, but it is unclear if the remainder of the S is lost to fugitive emissions or captured elsewhere. It does appear that the main stack is the only controlled SO2 source. A summary of the latest SO2 EI by release point would also be useful or a description of the % of facility wide SO2 that is passing through the main stack.

Thanks,

Andy

Andy Hawkins

EPA Region 7

11201 Renner Boulevard

Lenexa, Kansas 66219

(913) 551-7179 office

hawkins.andy@epa.gov

To: Bybee, Darcy (darcy.bybee@dnr.mo.gov)[darcy.bybee@dnr.mo.gov]; Wilbur,

Emily[emily.wilbur@dnr.mo.gov]

Cc: David Peter (peter.david@epa.gov)[peter.david@epa.gov]; Hawkins, Andy[hawkins.andy@epa.gov]; Steven Brown[Brown.Steven@epa.gov]; Avey,

Lance[Avey.Lance@epa.gov]
From: Algoe-Eakin, Amy

Sent: Wed 7/13/2016 8:09:24 PM

Subject: FYI- Region 7 Comments on MDNR DRR modeling protocol

Emily and Darcy,

Thank you for providing the protocol for DRR modeling. Overall, Andy has reviewed and believes the document looks good.

We consider the comments below informal, as we believe the DRR modeling protocol is a living document. It is our desire to be reasonable and work with you to address issues which may invariably arise and the modeling protocol may need to be adjusted.

For specifics related to the comments below, please feel free to directly discuss with Andy.

1. Section 3.3 if the department is aware of fixed release parameters different than in MoEIS they should be evaluated for use. For example, RATA data contains stack parameters at varying loads. There may be other stack testing data the department has that can be used. MDNR should attempt to avoid using stack parameters not reflecting normal actual operations that may lead to under predicted modeling concentrations. Modeling with stack parameters under varying load scenarios may be appropriate if stack temp and exit velocity parameters are fixed while emissions vary. This is especially true if the modeled design value is close to the NAAQS or if there is wide range of stack exit conditions that can't be represented by a fixed parameter.

- 2. Section 3.4 A hot spot analysis may be necessary if high modeled results occur in areas with large receptor spacing distance. This might occur for those sources with tall stacks whose maximum impacts may extend downwind and in areas of terrain or next to other smaller sources of SO2 emissions where there is an interaction.
- 3. Section 3.6 please consider specifying if monthly or seasonal assignments will be used in AERSURFACE.
- 4. Section 4.1 please work with EPA should the background methodology vary substantially over past MDNR analysis. We agree that each area should be evaluated independently and discussed in the final report.
- 5. Pg 18 contains this statement...All monitors being sited to comply with the DRR must be operational no later than January 1, 2017. Should any new monitors not be operational by that date, the source will move to the modeling pathway to characterize air quality and the analysis will follow this protocol for modeled sources. There is uncertainty about this statement and we might want to talk about this further to understand context.

Amy Algoe-Eakin, Section Chief

U.S. EPA Region 7

Air & Waste Management Division

Air Planning and Development Branch

(913) 551-7942 (Office)

(913) 424-8853 (Cell)

11201 Renner Boulevard, Lenexa KS 66219 algoe-eakin.amy@epa.gov



To: YOSHIMURA, GWEN[Yoshimura.Gwen@epa.gov]; Roland

Gutierrez[roland.gutierrez@epa.guam.gov]

Cc: Bohnenkamp, Carol[Bohnenkamp.Carol@epa.gov];

conchita.taitano@epa.guam.gov[conchita.taitano@epa.guam.gov]; Drake, Kerry[Drake.Kerry@epa.gov];

LIMAYE, VIJAY[Limaye.Vijay@epa.gov]; Sylvia L Ipanag[sipanag@gpagwa.com]; Roger U. Pabunan[rpabunan@gpagwa.com]; Norbert M. Madrazo[nmadrazo@gpagwa.com]; Luong

Truong[luong.truong@epa.guam.gov]; Paz A Tison[mtison@gpagwa.com]

From: Noel P. Cruz

Sent: Tue 6/14/2016 10:39:52 PM

Subject: Discuss Guam SO2 Modeling Protocol

Hi Gwen / Roland,

Please see our consultant's reply to the question 2 below.

Question 2: Please clarify how Guam EPA/EPA will be notified of re-located receptors, and whether an explanation of the reasons for relocation (characteristics of the locations, etc) will be included.

Reply: TRC will run the modeling analyses as proposed in the modeling protocol and will determine the appropriate design value resulting from the analyses. The receptor where the design value concentration is predicted to occur will be viewed on a satellite map of the area to determine if the specific point is accessible and appropriate for monitor siting. If it is, the design concentration will be reported as modeled.

In the event that the receptor is located on a water body, inaccessible location, or a point where a monitor cannot physically be located, a new receptor will be placed at the nearest point where a monitor can be located and the concentration at that receptor will be determined consistent with the modeling protocol. TRC will document any receptor determined to be inaccessible and will discuss the receptors in question with GEPA and USEPA before finalizing the modeling report.

With regards to question 1, the Final Modeling Protocol was emailed to you yesterday with Appendices C and D.

Please let us know if you have any comments or further questions.

Noel P. Cruz CESCO, CWMP

Engineer II (Environmental)

Planning & Regulatory

Guam Power Authority

Ncruz1@gpagwa.com

Tel: (671) 648-3030

Fax: (671) 648-3167

From: Noel P. Cruz

Sent: Tuesday, June 14, 2016 2:56 PM

To: 'YOSHIMURA, GWEN' <Yoshimura.Gwen@epa.gov>; 'Roland Gutierrez'

<roland.gutierrez@epa.guam.gov>

Cc: 'Bohnenkamp, Carol' <Bohnenkamp.Carol@epa.gov>; 'conchita.taitano@epa.guam.gov' <conchita.taitano@epa.guam.gov>; 'Drake, Kerry' <Drake.Kerry@epa.gov>; 'LIMAYE, VIJAY' <Limaye.Vijay@epa.gov>; Sylvia L Ipanag <sipanag@gpagwa.com>; Roger U. Pabunan <rpabunan@gpagwa.com>; 'Luong Truong'

<luong.truong@epa.guam.gov>

Subject: Discuss Guam SO2 Modeling Protocol

Gwen/Roland,

Appendix D ...last email attachment.

-noel

From: Noel P. Cruz

Sent: Tuesday, June 14, 2016 2:46 PM

To: 'YOSHIMURA, GWEN' < Yoshimura. Gwen@epa.gov>; 'Roland Gutierrez'

<roland.gutierrez@epa.guam.gov>

Cc: 'Bohnenkamp, Carol' <Bohnenkamp.Carol@epa.gov>; 'conchita.taitano@epa.guam.gov' <conchita.taitano@epa.guam.gov>; 'Drake, Kerry' <Drake.Kerry@epa.gov>; 'LIMAYE, VIJAY' <Limaye.Vijay@epa.gov>; Sylvia L Ipanag <sipanag@gpagwa.com>; Roger U. Pabunan

<rpabunan@gpagwa.com>; Norbert M. Madrazo <nmadrazo@gpagwa.com>; 'Luong Truong' <luong.truong@epa.guam.gov> Subject: Discuss Guam SO2 Modeling Protocol Gwen/Roland, Appendix C attached. -noel From: Noel P. Cruz Sent: Tuesday, June 14, 2016 2:41 PM To: 'YOSHIMURA, GWEN' <Yoshimura.Gwen@epa.gov>; Roland Gutierrez <roland.gutierrez@epa.guam.gov> Cc: Bohnenkamp, Carol < Bohnenkamp.Carol@epa.gov >; Conchita Taitano (conchita.taitano@epa.guam.gov) <conchita.taitano@epa.guam.gov>; Drake, Kerry <<u>Drake.Kerry@epa.gov</u>>; LIMAYE, VIJAY <<u>Limaye.Vijay@epa.gov</u>>; Sylvia L Ipanag <sipanag@gpagwa.com>; Roger U. Pabunan <rpabunan@gpagwa.com>; Norbert M. Madrazo <nmadrazo@gpagwa.com>; Luong Truong <luong.truong@epa.guam.gov> Subject: RE: Discuss Guam SO2 Modeling Protocol Hafa Adai Gwen/Roland, Please see attached copy of FINAL Guam SO2 Modeling Protocol. I'm sending 2 more emails with attachment i.e. Appendices C and D, respectively. Let us know if you have other questions or need futher clarification. Si' Yu'us Ma'ase. Noel P. Cruz Engineer II (Environmental)

Planning & Regulatory

Guam Power Authority

Ncruz1@gpagwa.com

Tel: (671) 648-3030

Fax: (671) 648-3167

From: YOSHIMURA, GWEN [mailto:Yoshimura.Gwen@epa.gov]

Sent: Tuesday, June 14, 2016 8:32 AM

To: Roland Gutierrez <roland.gutierrez@epa.guam.gov>; Roger U. Pabunan

<rpabunan@gpagwa.com>

Cc: Bohnenkamp, Carol <Bohnenkamp.Carol@epa.gov>; Conchita Taitano (conchita.taitano@epa.guam.gov) <conchita.taitano@epa.guam.gov>; Drake, Kerry <Drake.Kerry@epa.gov>; LIMAYE, VIJAY <Limaye.Vijay@epa.gov>; Sylvia L Ipanag <sipanag@gpagwa.com>; Noel P. Cruz <ncruz1@gpagwa.com>; Norbert M. Madrazo <nmadrazo@gpagwa.com>; Luong Truong <luong.truong@epa.guam.gov>

Subject: RE: Discuss Guam SO2 Modeling Protocol

Hi Roland,

Thanks for checking in. A few comments on the latest Draft Modeling Protocol:

- 1. We did not receive Appendix C or Appendix D.
- 2. Section 5: Please clarify how Guam EPA/EPA will be notified of re-located receptors, and whether an explanation of the reasons for relocation (characteristics of the locations, etc) will be included.
- 3. Section 7: When we receive Appendix D, we can verify the appropriate background concentration.

That's it. Overall, we think the protocol is in good shape. Thanks, and please let Carol know if you have any questions.

-Gwen

From: Roland Gutierrez [mailto:roland.gutierrez@epa.guam.gov]

Sent: Sunday, June 12, 2016 4:17 PM

To: Roger U. Pabunan <rpabunan@gpagwa.com>

Cc: YOSHIMURA, GWEN < Yoshimura. Gwen@epa.gov >; Bohnenkamp, Carol

< Bohnenkamp.Carol@epa.gov >; Conchita Taitano (conchita.taitano@epa.guam.gov)

<conchita.taitano@epa.guam.gov>; Drake, Kerry <Drake.Kerry@epa.gov>; LIMAYE, VIJAY

<<u>Limaye.Vijay@epa.gov</u>>; Sylvia L Ipanag <<u>sipanag@gpagwa.com</u>>; Noel P. Cruz

<ncruz1@gpagwa.com>; Norbert M. Madrazo <nmadrazo@gpagwa.com>; Luong Truong

<luong.truong@epa.guam.gov>

Subject: Re: Discuss Guam SO2 Modeling Protocol

Gwen,

We are almost halfway through June and we wanted to follow up with USEPA to determine if there were any more comments, questions or concerns on the latest submission (attached) of the Draft Modeling Protocol. Please advise and we look forward to submitting the final Modeling Protocol in a timely manner for the island of Guam.

Sincerely,

Roland T. Gutierrez Jr., MPA EHS Supervisor, Air Pollution Control Program - Guam EPA roland.gutierrez@epa.guam.gov Ph. 1-671-300-4751/2/3

Fax: 1-671-300-4731727.

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Good day Gwen.

Please see attached current version of the DRR Protocol for Guam. This is Revision 3, which includes responses to comments from Carol Bohnenkamp's May 9th Email.

Regards,

Roger U. Pabunan

Engineer Supervisor

Planning & Regulatory

Guam Power Authority

rpabunan@gpagwa.com

Tel: (671) 648-3032

Fax: (671) 648-3290

I-connect: 671*11*20152

 $\textbf{From:} \ YOSHIMURA, \ GWEN \ [mailto: \underline{Yoshimura.Gwen@epa.gov}]$

Sent: Friday, May 27, 2016 6:58 AM

To: Conchita San Nicolas Taitano; Sylvia L Ipanag; Roland Gutierrez - Air Program Supervisor Cc: Bohnenkamp, Carol; Drake, Kerry; LIMAYE, VIJAY Subject: RE: Discuss Guam SO2 Modeling Protocol Hello, We are nearing the end of the month, with about a month to go before the SO2 modeling protocol is due on July 1st. Carol has not received any questions concerning our May 9st modeling protocol comments. As a reminder, should questions arise, please feel free to contact her at the number provided below. Thanks! -Gwen From: Bohnenkamp, Carol **Sent:** Tuesday, May 10, 2016 8:11 AM **To:** Drake, Kerry < <u>Drake.Kerry@epa.gov</u>>; Conchita San Nicolas Taitano <conchita.taitano@epa.guam.gov>; YOSHIMURA, GWEN <Yoshimura.Gwen@epa.gov>; Sylvia Ipanag <sipanag@gpagwa.com>; Roland Gutierrez - Air Program Supervisor <roland.gutierrez@epa.guam.gov> Subject: RE: Discuss Guam SO2 Modeling Protocol

Here are the notes from yesterday's call about the SO2 NAAQS Designation Modeling for Guam. Please feel free to call me at (415) 947-4130 if you have any questions.

2.0 Emission and Source Data

List which sources will be explicitly modeled when you have completed that analysis. 5.0 Receptor Array. Clarify the process for editing out high concentrations. 6.0 Meteorological data Please clarify the hierarchy for data use for the surface data. Discuss the quality assurance and data completeness for each year. Please discuss other available surface data, if any. 7.0 Background concentration After determining which nearby sources will be explicitly modeled, please select a background concentration at will account for the point sources that are not modeled, as well as ships, etc. See SO2 Modeling TAD, page 30, regarding selecting background concentration 8.0 Modeling Results

• Explain why "For comparison to the 1 hour SO2 NAAQS, the maximum five year average of the 99th th percentile of the annual distribution of the maximum daily 1-hour predicted concentration determined for each receptor will be reported using three years of

Please provide an emission inventory.

meteorological data."

Carol Bohnenkamp

US EPA Region 9 (AIR-7)

75 Hawthorne St.

San Francisco, CA 94105

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To: YOSHIMURA, GWEN[Yoshimura.Gwen@epa.gov]; Roland Gutierrez[roland.gutierrez@epa.guam.gov] Cc: Bohnenkamp, Carol[Bohnenkamp.Carol@epa.gov]; conchita.taitano@epa.guam.gov[conchita.taitano@epa.guam.gov]; Drake, Kerry[Drake.Kerry@epa.gov] LIMAYE, VIJAY[Limaye.Vijay@epa.gov]; Sylvia L Ipanag[sipanag@gpagwa.com]; Roger U. Pabunan[rpabunan@gpagwa.com]; Norbert M. Madrazo[nmadrazo@gpagwa.com]; Luong Truong[luong.truong@epa.guam.gov] From: Noel P. Cruz Sent: Tue 6/14/2016 4:56:08 AM Subject: Discuss Guam SO2 Modeling Protocol (3 of 3) Attachment D - AAQM Network Data 1999-2000.pdf
Gwen/Roland,
Appendix Dlast email attachment.
-noel
From: Noel P. Cruz Sent: Tuesday, June 14, 2016 2:46 PM To: 'YOSHIMURA, GWEN' <yoshimura.gwen@epa.gov>; 'Roland Gutierrez' <roland.gutierrez@epa.guam.gov> Cc: 'Bohnenkamp, Carol' <bohnenkamp.carol@epa.gov>; 'conchita.taitano@epa.guam.gov' <conchita.taitano@epa.guam.gov>; 'Drake, Kerry' <drake.kerry@epa.gov>; 'LIMAYE, VIJAY' <limaye.vijay@epa.gov>; Sylvia L Ipanag <sipanag@gpagwa.com>; Roger U. Pabunan <rpabunan@gpagwa.com>; Norbert M. Madrazo <nmadrazo@gpagwa.com>; 'Luong Truong' <luong.truong@epa.guam.gov> Subject: Discuss Guam SO2 Modeling Protocol</luong.truong@epa.guam.gov></nmadrazo@gpagwa.com></rpabunan@gpagwa.com></sipanag@gpagwa.com></limaye.vijay@epa.gov></drake.kerry@epa.gov></conchita.taitano@epa.guam.gov></bohnenkamp.carol@epa.gov></roland.gutierrez@epa.guam.gov></yoshimura.gwen@epa.gov>
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To: 'YOSHIMURA, GWEN' <Yoshimura.Gwen@epa.gov>; Roland Gutierrez

<roland.gutierrez@epa.guam.gov>

Cc: Bohnenkamp, Carol ; Conchita Taitano (conchita.taitano@epa.guam.gov">; Drake, Kerry ; LIMAYE, VIJAY ; Sylvia L Ipanag">; Sylvia L Ipanag

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Planning & Regulatory

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Fax: 1-671-300-4731/2/

epa.guam.gov - facebook.com/Guam EPA - twitter.com/GuamEPA

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Supervisor

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5.0 Receptor Array.
Clarify the process for editing out high concentrations.

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Truong[luong.truong@epa.guam.gov]

From: Noel P. Cruz

Sent: Tue 6/14/2016 4:45:39 AM

Subject: Discuss Guam SO2 Modeling Protocol

(2 of 3) Attachment C- QCQA Manual for CPP MET Monitoring Program.pdf

Gwen/Roland,

Appendix C attached.

-noel

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Sincerely,

Fax: 1-671-300-4531

epa.guam.gov - facebook.com/Guam EPA - twitter.com/GuamEPA

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Regards,

Roger U. Pabunan

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Tel: (671) 648-3032

Fax: (671) 648-3290

I-connect: 671*11*20152

Sent: Friday, May 27, 2016 6:58 AM
To: Conchita San Nicolas Taitano; Sylvia L Ipanag; Roland Gutierrez - Air Program Supervisor
Cc: Bohnenkamp, Carol; Drake, Kerry; LIMAYE, VIJAY

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• Explain why "For comparison to the 1 hour SO2 NAAQS, the maximum five year average of the 99th the percentile of the annual distribution of the maximum daily 1-hour predicted concentration determined for each receptor will be reported using three years of meteorological data."

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Carol Bohnenkamp

US EPA Region 9 (AIR-7)

75 Hawthorne St.

San Francisco, CA 94105

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To: Roland Gutierrez[roland.gutierrez@epa.guam.gov]; Roger U.

Pabunan[rpabunan@gpagwa.com]

Cc: Bohnenkamp, Carol[Bohnenkamp.Carol@epa.gov]; Conchita Taitano (conchita.taitano@epa.guam.gov)[conchita.taitano@epa.guam.gov]; Drake, Kerry[Drake.Kerry@epa.gov]; LIMAYE, VIJAY[Limaye.Vijay@epa.gov]; Sylvia L lpanag[sipanag@gpagwa.com]; Noel P. Cruz[ncruz1@gpagwa.com]; Norbert M. Madrazo[nmadrazo@gpagwa.com]; Luong Truong[luong.truong@epa.guam.gov]

From: YOSHIMURA, GWEN **Sent:** Mon 6/13/2016 10:31:32 PM

Subject: RE: Discuss Guam SO2 Modeling Protocol

Hi Roland,

Thanks for checking in. A few comments on the latest Draft Modeling Protocol:

- 1. We did not receive Appendix C or Appendix D.
- 2. Section 5: Please clarify how Guam EPA/EPA will be notified of re-located receptors, and whether an explanation of the reasons for relocation (characteristics of the locations, etc) will be included.
- 3. Section 7: When we receive Appendix D, we can verify the appropriate background concentration.

That's it. Overall, we think the protocol is in good shape. Thanks, and please let Carol know if you have any questions.

-Gwen

From: Roland Gutierrez [mailto:roland.gutierrez@epa.guam.gov]

Sent: Sunday, June 12, 2016 4:17 PM

To: Roger U. Pabunan <rpabunan@gpagwa.com>

Cc: YOSHIMURA, GWEN <Yoshimura.Gwen@epa.gov>; Bohnenkamp, Carol

<Bohnenkamp.Carol@epa.gov>; Conchita Taitano (conchita.taitano@epa.guam.gov)
<conchita.taitano@epa.guam.gov>; Drake, Kerry <Drake.Kerry@epa.gov>; LIMAYE, VIJAY
<Limaye.Vijay@epa.gov>; Sylvia L Ipanag <sipanag@gpagwa.com>; Noel P. Cruz
<ncruz1@gpagwa.com>; Norbert M. Madrazo <nmadrazo@gpagwa.com>; Luong Truong
<luong.truong@epa.guam.gov>
Subject: Re: Discuss Guam SO2 Modeling Protocol

Gwen,

We are almost halfway through June and we wanted to follow up with USEPA to determine if there were any more comments, questions or concerns on the latest submission (attached) of the Draft Modeling Protocol. Please advise and we look forward to submitting the final Modeling Protocol in a timely manner for the island of Guam.

Sincerely,

Roland T. Gutierrez Jr., MPA EHS Supervisor, Air Pollution Control Program - Guam EPA roland.gutierrez@epa.guam.gov Ph. 1-671-300-4751/2/3 Fax: 1-671-300-4531

epa.guam.gov - facebook.com/Guam EPA - twitter.com/GuamEPA

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On Fri, May 27, 2016 at 9:33 AM, Roger U. Pabunan <<u>rpabunan@gpagwa.com</u>> wrote:

Good day Gwen.

Please see attached current version of the DRR Protocol for Guam. This is Revision 3, which includes responses to comments from Carol Bohnenkamp's May 9th Email.

Regards,

Roger U. Pabunan

Engineer Supervisor

Planning & Regulatory

Guam Power Authority

rpabunan@gpagwa.com

Tel: (671) 648-3032

Fax: (671) 648-3290

I-connect: 671*11*20152

From: YOSHIMURA, GWEN [mailto:Yoshimura.Gwen@epa.gov]

Sent: Friday, May 27, 2016 6:58 AM

To: Conchita San Nicolas Taitano; Sylvia L Ipanag; Roland Gutierrez - Air Program

Supervisor

Cc: Bohnenkamp, Carol; Drake, Kerry; LIMAYE, VIJAY

Subject: RE: Discuss Guam SO2 Modeling Protocol

Hello,

We are nearing the end of the month, with about a month to go before the SO2 modeling protocol is due on July 1st. Carol has not received any questions concerning our May 9st modeling protocol comments. As a reminder, should questions arise, please feel free to

contact her at the number provided below.
Thanks!
-Gwen
From: Bohnenkamp, Carol Sent: Tuesday, May 10, 2016 8:11 AM To: Drake, Kerry < Drake.Kerry@epa.gov ; Conchita San Nicolas Taitano Conchita.taitano@epa.guam.gov ; YOSHIMURA, GWEN Yoshimura.Gwen@epa.gov ; Sylvia Ipanag Sipanag@gpagwa.com ; Roland Gutierrez - Air Program Supervisor Toland.gutierrez@epa.guam.gov > Subject: RE: Discuss Guam SO2 Modeling Protocol
Here are the notes from yesterday's call about the SO2 NAAQS Designation Modeling for Guam. Please feel free to call me at (415) 947-4130 if you have any questions.
2.0 Emission and Source Data
 Please provide an emission inventory. List which sources will be explicitly modeled when you have completed that analysis.
5.0 Receptor Array.
Clarify the process for editing out high concentrations.

6.0 Meteorological data Please clarify the hierarchy for data use for the surface data. Discuss the quality assurance and data completeness for each year. Please discuss other available surface data, if any. 7.0 Background concentration After determining which nearby sources will be explicitly modeled, please select a background concentration at will account for the point sources that are not modeled, as well as ships, etc. See SO2 Modeling TAD, page 30, regarding selecting background concentration 8.0 Modeling Results Explain why "For comparison to the 1 hour SO2 NAAQS, the maximum five year average of the 99th th percentile of the annual distribution of the maximum daily 1-hour predicted concentration determined for each receptor will be reported using three years of meteorological data." Carol Bohnenkamp US EPA Region 9 (AIR-7) 75 Hawthorne St. San Francisco, CA 94105

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To: Roger U. Pabunan[rpabunan@gpagwa.com]

Cc: YOSHIMURA, GWEN[Yoshimura.Gwen@epa.gov]; Bohnenkamp,

Carol[Bohnenkamp.Carol@epa.gov]; Conchita Taitano

(conchita.taitano@epa.guam.gov)[conchita.taitano@epa.guam.gov]; Drake, Kerry[Drake.Kerry@epa.gov]; LIMAYE, VIJAY[Limaye.Vijay@epa.gov]; Sylvia L Ipanag[sipanag@gpagwa.com]; Noel P. Cruz[ncruz1@gpagwa.com]; Norbert M. Madrazo[nmadrazo@gpagwa.com]; Luong Truong[luong.truong@epa.guam.gov]

From: Roland Gutierrez

Sent: Sun 6/12/2016 11:17:00 PM

Subject: Re: Discuss Guam SO2 Modeling Protocol

DRAFT PROTOCOL 6-06-16.docx

Gwen.

We are almost halfway through June and we wanted to follow up with USEPA to determine if there were any more comments, questions or concerns on the latest submission (attached) of the Draft Modeling Protocol. Please advise and we look forward to submitting the final Modeling Protocol in a timely manner for the island of Guam.

Sincerely,

Roland T. Gutierrez Jr., MPA EHS Supervisor, Air Pollution Control Program - Guam EPA roland.gutierrez@epa.guam.gov Ph. 1-671-300-4751/2/3

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On Fri, May 27, 2016 at 9:33 AM, Roger U. Pabunan <rp>erpabunan@gpagwa.com

Good day Gwen.

Please see attached current version of the DRR Protocol for Guam. This is Revision 3, which includes responses to comments from Carol Bohnenkamp's May 9th Email.

Regards,

Roger U. Pabunan

Engineer Supervisor

Planning & Regulatory

Guam Power Authority

rpabunan@gpagwa.com

Tel: (671) 648-3032

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I-connect: 671*11*20152

From: YOSHIMURA, GWEN [mailto: Yoshimura.Gwen@epa.gov]

Sent: Friday, May 27, 2016 6:58 AM

To: Conchita San Nicolas Taitano; Sylvia L Ipanag; Roland Gutierrez - Air Program

Supervisor

Cc: Bohnenkamp, Carol; Drake, Kerry; LIMAYE, VIJAY

Subject: RE: Discuss Guam SO2 Modeling Protocol

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Thanks!

	^		_	·
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Cruz[ncruz1@gpagwa.com]; Norbert M. Madrazo[nmadrazo@gpagwa.com]

From: Roger U. Pabunan

Sent: Thur 5/26/2016 11:33:11 PM

Subject: RE: Discuss Guam SO2 Modeling Protocol

DRAFT PROTOCOL 5-20-16 - rev3.docx

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To: Grooms, Leland[Grooms.Leland@epa.gov]

Cc: Davis, Michael[Davis.Michael@epa.gov]; Brown, Steven[Brown.Steven@epa.gov]; Peter, David[peter.david@epa.gov]; patricia.maliro@dnr.mo.gov[patricia.maliro@dnr.mo.gov]; Algoe-Eakin, Amy[Algoe-Eakin.Amy@epa.gov]; Bybee, Darcy[darcy.bybee@dnr.mo.gov]; Moore, Kyra[kyra.moore@dnr.mo.gov]; Hawkins, Andy[hawkins.andy@epa.gov]; Wilbur, Emily[emily.wilbur@dnr.mo.gov]

From: Hall, Stephen

Sent: Fri 5/27/2016 9:19:09 PM

Subject: MO 2016 Monitoring Network Plan Posted

Lee,

We posted the Missouri 2016 Monitoring Network Plan for public inspection today. It is available at the following link:

http://dnr.mo.gov/env/apcp/airpollutants.htm#monitoringnetworkplan

There is one slight change in the Buick SO2 network based on a discussion we had with Doe Run staff this week. Rather than proposing the sawmill site, they proposed the location of the former SO2 monitoring site used in their preconstruction PSD project several years ago (circa 2006). This location already has electrical power established and is located less than ¼ mile east of the sawmill site you visited. This former PSD monitoring site location is still in the area of modeled SO2 impact. Historical preconstruction SO2 monitoring data obtained at this location is summarized in our 2011 Monitoring Network Plan on pages 18 and 19 and is available at this link: http://dnr.mo.gov/env/apcp/docs/2011monitoringnetwork.pdf

Patricia Maliro will follow up with you next week regarding these details.

Stephen M. Hall

Air Quality Analysis Section Chief

Air Pollution Control Program

Missouri Department of Natural Resources

1659A E. Elm St., Jefferson City, MO 65102-0176

Phone: 573-526-1985